

Practical Application III: Comparing Classifiers

Overview: In this practical application, your goal is to compare the performance of the classifiers we encountered in this section, namely K Nearest Neighbor, Logistic Regression, Decision Trees, and Support Vector Machines. We will utilize a dataset related to marketing bank products over the telephone.

Getting Started

Our dataset comes from the UCI Machine Learning repository [link](#). The data is from a Portuguese banking institution and is a collection of the results of multiple marketing campaigns. We will make use of the article accompanying the dataset [here](#) for more information on the data and features.

Problem 1: Understanding the Data

To gain a better understanding of the data, please read the information provided in the UCI link above, and examine the **Materials and Methods** section of the paper. How many marketing campaigns does this data represent?

For my benefit I summarized the paper. There were 17 different campaigns carried out.

Business Goal:

Find a model that can explain the success of a contact i.e. will the client subscribe to a deposit? By identifying the main characteristics that affect success of a contact, the bank can increase its marketing efficiency and achieve a given number of successes for a lesser number of contacts thus saving time and resources.

First Iteration

The research focused on whether the client will subscribe not regarding the deposit amount (which was initially an output). Then in addition to campaign data, client personal information was collected resulting in a total of 59 attributes. A first rough model was then built.

Second Iteration

The target classes were simplified to just two outcomes and graphical tools were used to visualize and analyze the data. Features that had equal proportions of Success and Failures were eliminated resulting in 29 input variables. Testing seemed to support the removal of the excess features.

Third Iteration

- Nulls were removed and a third iteration of models were built and holdout validation was conducted.
- AUC-ROC curves and Cumulative LIFT curves were plotted to compare the different models.
- A sensitivity analysis to show the most important features and gain feedback on how best to conduct future campaigns. For instance, call duration was found to be the most important along with the specific month of contact.

Next steps

- Test the existing model in the real world
- Collect more client based data and test contact-less campaign

```
In [1]: import sys
from importlib import reload
sys.path.append('/Users/basilhaddad/jupyter/module17/bank_marketing_repo/')
from helpers.my_imports import *
pd.set_option('display.max_columns', None)

from helpers.reload import myreload
import helpers.plot as plot
import helpers.tools as tools
```

Problem 2: Read in the Data

Use pandas to read in the dataset `bank-additional-full.csv` and assign to a meaningful variable name.

Naming the dataframe:

- To begin with we will read in the data into a dataframe called raw
- We will assign df_edits for the cleaning stage
- We will define df_viz which will be a copy of df_edits but with the target encoded to aid in visualizations
- Ultimately we will call the datafram df_campaign

```
In [2]: raw = pd.read_csv('data/bank-additional-full.csv', sep = ';')
raw.sample(4)
```

Out[2]:	age	job	marital	education	default	housing	loan	contact	month	day_of_week	duration	campaign	pdays	previous	poutcome
20016	41	technician	divorced	university.degree	no	yes	yes	cellular	aug	fri	89	2	999	0	nonexiste
34488	30	admin.	married	university.degree	no	no	yes	cellular	may	thu	234	2	999	0	nonexiste
36311	72	admin.	married	university.degree	no	yes	no	cellular	jun	mon	134	1	999	0	nonexiste
30917	33	blue-collar	married	basic.4y	unknown	yes	yes	cellular	may	tue	106	1	999	0	nonexiste

Problem 3: Understanding the Features

Examine the data description below, and determine if any of the features are missing values or need to be coerced to a different data type.

```

Input variables:
# bank client data:
1 - age (numeric)
2 - job : type of job (categorical: 'admin.', 'blue-
collar', 'entrepreneur', 'housemaid', 'management', 'retired', 'self-
employed', 'services', 'student', 'technician', 'unemployed', 'unknown')
3 - marital : marital status (categorical: 'divorced', 'married', 'single', 'unknown'; note: 'divorced' means
divorced or widowed)
4 - education (categorical:
'basic.4y', 'basic.6y', 'basic.9y', 'high.school', 'illiterate', 'professional.course', 'university.degree', 'unknown')
5 - default: has credit in default? (categorical: 'no', 'yes', 'unknown')
6 - housing: has housing loan? (categorical: 'no', 'yes', 'unknown')
7 - loan: has personal loan? (categorical: 'no', 'yes', 'unknown')
# related with the last contact of the current campaign:
8 - contact: contact communication type (categorical: 'cellular', 'telephone')
9 - month: last contact month of year (categorical: 'jan', 'feb', 'mar', ..., 'nov', 'dec')
10 - day_of_week: last contact day of the week (categorical: 'mon', 'tue', 'wed', 'thu', 'fri')
11 - duration: last contact duration, in seconds (numeric). Important note: this attribute highly affects
the output target (e.g., if duration=0 then y='no'). Yet, the duration is not known before a call is
performed. Also, after the end of the call y is obviously known. Thus, this input should only be included
for benchmark purposes and should be discarded if the intention is to have a realistic predictive model.
# other attributes:
12 - campaign: number of contacts performed during this campaign and for this client (numeric, includes
last contact)
13 - pdays: number of days that passed by after the client was last contacted from a previous campaign
(numeric; 999 means client was not previously contacted)
14 - previous: number of contacts performed before this campaign and for this client (numeric)
15 - poutcome: outcome of the previous marketing campaign (categorical: 'failure', 'nonexistent', 'success')
# social and economic context attributes
16 - emp.var.rate: employment variation rate - quarterly indicator (numeric)
17 - cons.price.idx: consumer price index - monthly indicator (numeric)
18 - cons.conf.idx: consumer confidence index - monthly indicator (numeric)
19 - euribor3m: euribor 3 month rate - daily indicator (numeric)
20 - nr.employed: number of employees - quarterly indicator (numeric)

Output variable (desired target):
21 - y - has the client subscribed a term deposit? (binary: 'yes', 'no')

```

Check for nulls

We see that there are no nulls in the dataset.

```
In [3]: #check for nan values (none found)
raw.isna().sum().sum()
```

```
Out[3]: 0
```

Check for duplicates

There are 12 duplicates. We will **not drop** them because for this dataset, it is very likely that multiple samples really do have the same values as there is nothing to uniquely identify a campaign call or internet query

```
In [4]: #Look for duplicates
duplicate_rows=raw[raw.duplicated()]
duplicate_rows.shape[0]
#df_edits = raw.drop_duplicates(inplace=False)
```

```
Out[4]: 12
```

Define df_edits to make edits to the dataframe

We will rename the dataframe along the way as needed

```
In [5]: df_edits = raw.copy()
```

Feature Coercion

- Since pdays has a value of 999 to indicate that a client was not previously contacted, treating it as a continuous variable would distort the distribution and is very likely to affect modeling performance. We will convert the feature to categorical and update the 999s to 'Not contacted'
- All other features of type 'object' will be converted to 'category' for more efficient memory usage and processing. This would also allow us to define an order for visualizations.

```
In [6]: # replace 999s with Not contacted and make column categorical
df_edits['pdays'] = df_edits['pdays'].replace(999, 'Not contacted').astype('category')
```

```
In [7]: #convert object type columns to categorical
df_edits[df_edits.select_dtypes(exclude=['number']).columns] = df_edits.select_dtypes(exclude=['number']).astype('category')
df_edits.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 41188 entries, 0 to 41187
Data columns (total 21 columns):
 #   Column      Non-Null Count  Dtype  
--- 
 0   age         41188 non-null   int64  
 1   job          41188 non-null   category
 2   marital      41188 non-null   category
 3   education    41188 non-null   category
 4   default      41188 non-null   category
 5   housing      41188 non-null   category
 6   loan          41188 non-null   category
 7   contact       41188 non-null   category
 8   month         41188 non-null   category
 9   day_of_week   41188 non-null   category
 10  duration     41188 non-null   int64  
 11  campaign     41188 non-null   int64  
 12  pdays        41188 non-null   category
 13  previous     41188 non-null   int64  
 14  poutcome     41188 non-null   category
 15  emp.var.rate 41188 non-null   float64 
 16  cons.price.idx 41188 non-null   float64 
 17  cons.conf.idx 41188 non-null   float64 
 18  euribor3m    41188 non-null   float64 
 19  nr.employed  41188 non-null   float64 
 20  y             41188 non-null   category
dtypes: category(12), float64(5), int64(4)
memory usage: 3.3 MB
```

Visualizations

We define df_viz with an encoded target column to help facilitate plots showing subscription rates (not counts).

```
In [8]: #Define df_viz to facilitate plotting of subscription rates
df_viz = df_edits.copy()

#df_viz will have a label encoded version of the target to make barplots and plotly plots with percentages easier
from sklearn.preprocessing import LabelEncoder
le = LabelEncoder()
df_viz.y = le.fit_transform(df_viz.y)
```

Target Column

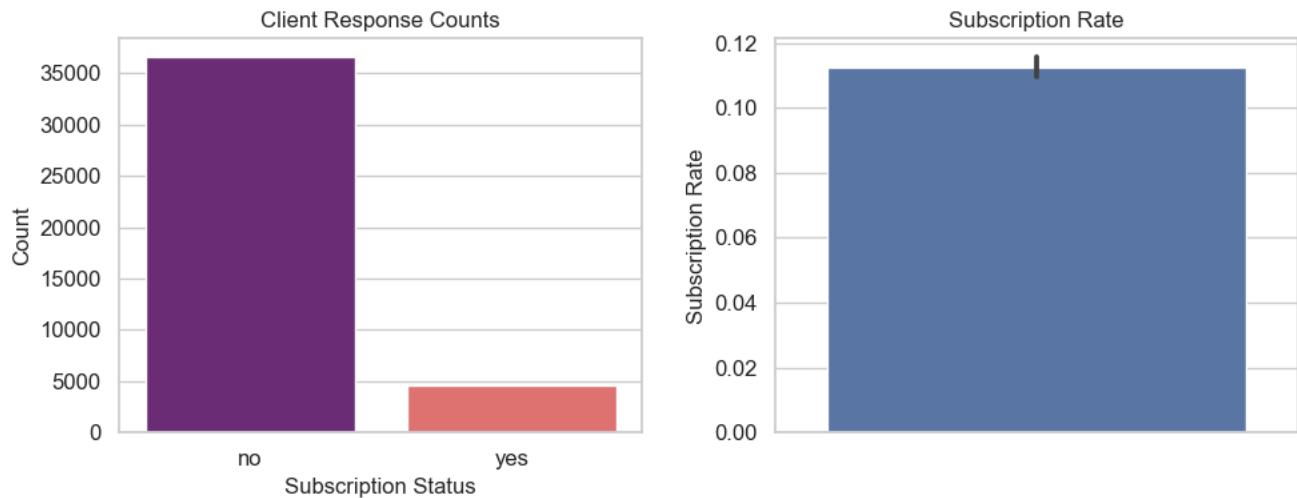
```
In [9]: common_fontsize = 12

plt.figure(figsize=(10, 4))
sns.set(style="whitegrid", font_scale=1)

plt.subplot(1,2,1)
sns.countplot(data=df_edits, x='y', palette='magma')
plt.title('Client Response Counts', fontsize=common_fontsize)
plt.xlabel('Subscription Status', fontsize=common_fontsize)
plt.ylabel('Count', fontsize=common_fontsize)
plt.xticks(fontsize=common_fontsize)
plt.yticks(fontsize=common_fontsize)

plt.subplot(1,2,2)
sns.barplot(data=df_viz, y='y')
plt.title('Subscription Rate', fontsize=common_fontsize)
plt.xlabel('')
plt.ylabel('Subscription Rate', fontsize=common_fontsize)
plt.xticks(fontsize=common_fontsize)
plt.yticks(fontsize=common_fontsize)

plt.tight_layout(w_pad=2)
plt.show()
```



We will also calculate the exact subscription rate

The target column shows **imbalance** with an overall subscription rate of 11.27%

```
In [10]: overall_success_rate = df_edits.y.value_counts().iloc[1]/df_edits.shape[0]
print(f"Overall success rate: {100*overall_success_rate:.2f}%")
Overall success rate: 11.27%
```

Benchmark Feature: Duration

- Duration column shows that for calls shorter than 70s, no subscriptions are made
- The mode of the duration is around 90-100s with only few clients subscribing
- As the duration increases the subscription rate increases strongly

```
In [11]: common_fontsize = 15

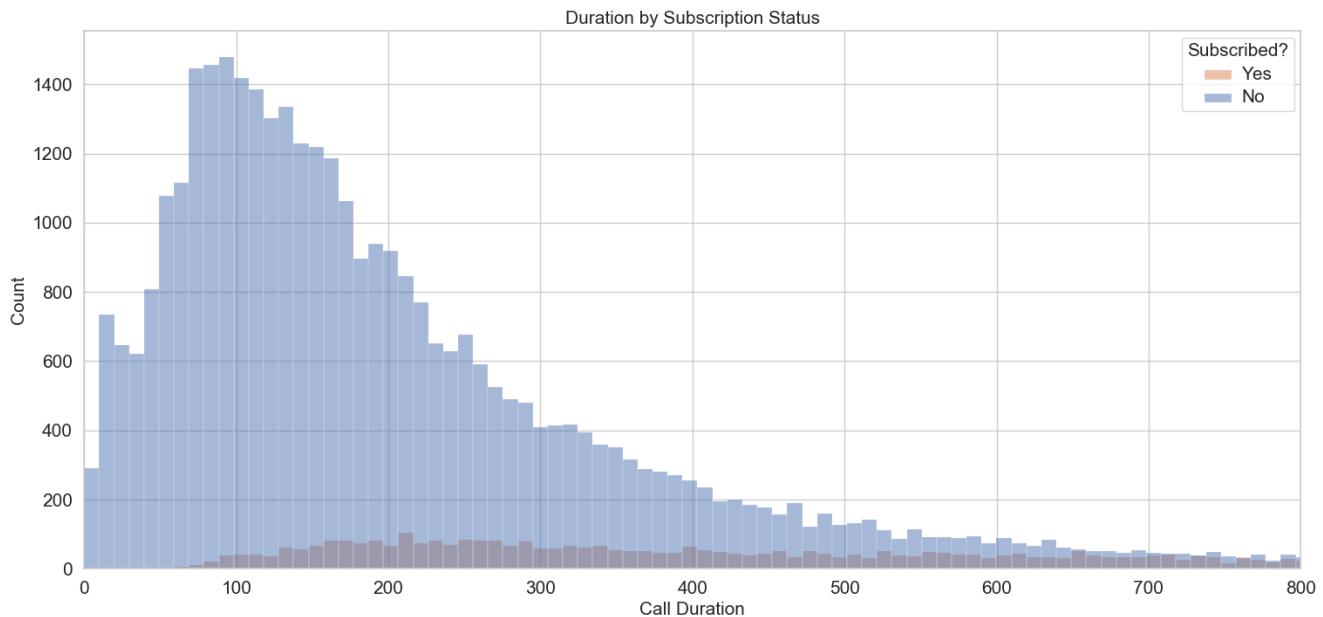
plt.figure(figsize=(18,8))
sns.set(style="whitegrid", font_scale=1)

# Create the plot
sns.histplot(data=df_edits, x='duration', hue='y', bins=500, legend=True)

# Customize labels and title
plt.title('Duration by Subscription Status', fontsize=common_fontsize)
plt.xlabel('Call Duration', fontsize=common_fontsize)
plt.ylabel('Count', fontsize=common_fontsize)
plt.xticks(fontsize=common_fontsize)
plt.yticks(fontsize=common_fontsize)
plt.xlim(0, 800)

# Customize the legend
legend = plt.legend(title='Subscribed?', labels=['Yes', 'No'])
legend.get_title().set_fontsize(common_fontsize) # Legend title fontsize
for t in legend.texts:
    t.set_fontsize(common_fontsize) # Legend label fontsize

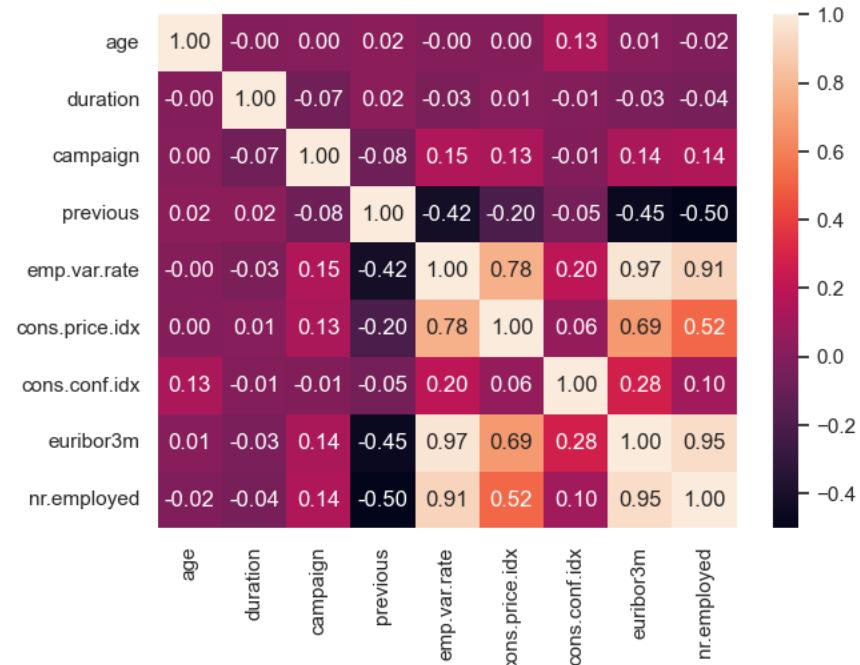
plt.show()
```



Correlation Matrix

```
In [12]: #Correlation Matrix
plt.figure(figsize=(7, 5))
correlation_matrix = df_edits.corr(numeric_only=True)
sns.heatmap(correlation_matrix, annot=True, fmt='.2f')
#display(correlation_matrix)
```

Out[12]: <Axes: >



Subscription Rates by (Most) Features

- This first group of subplots shows features by **percentage** of subscription response (yes/no)
- Not all features are included in these subplots, however there are more plots further below

```
In [13]: df_edits.sample(2)
```

```
Out[13]:
```

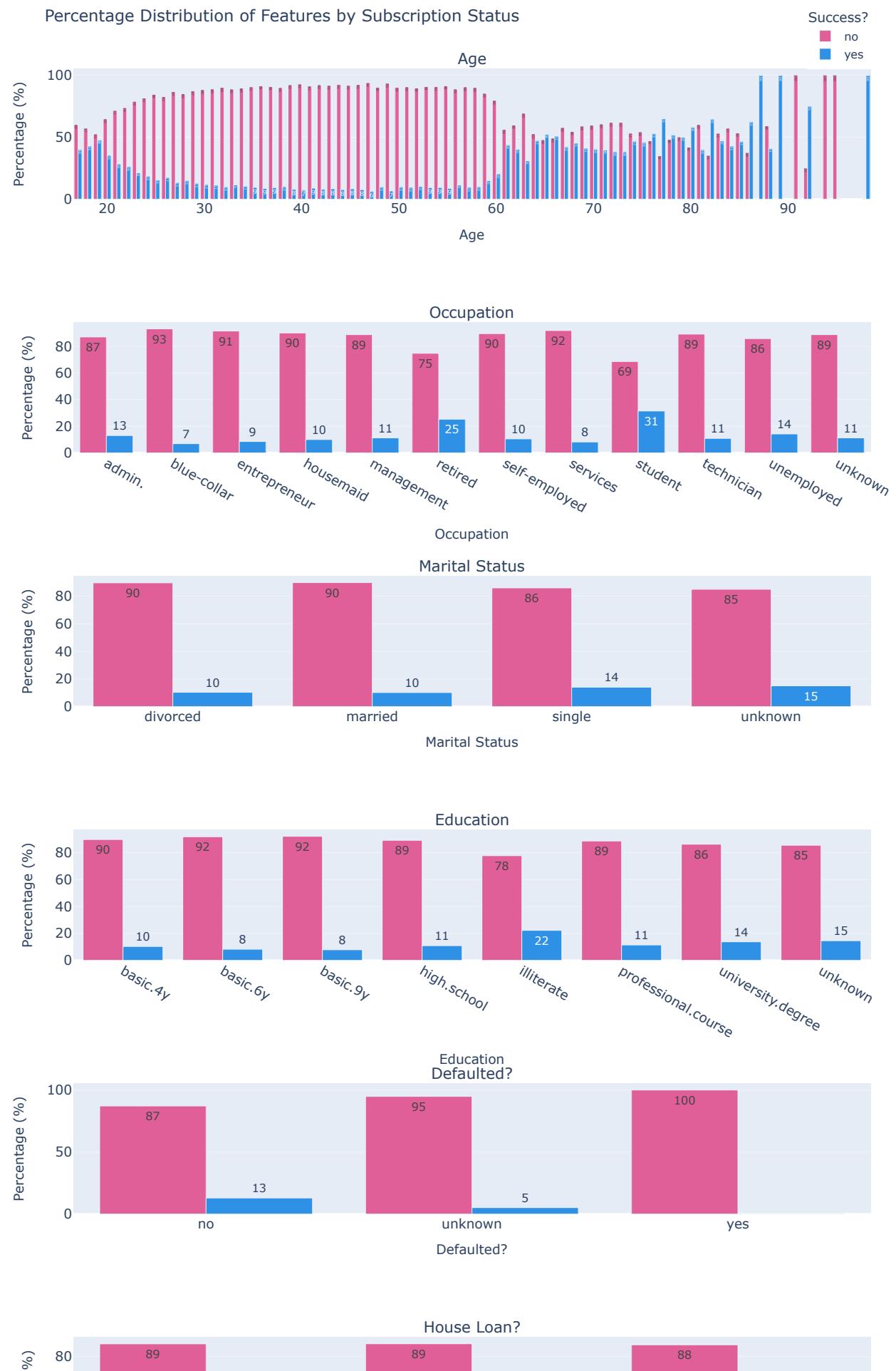
	age	job	marital	education	default	housing	loan	contact	month	day_of_week	duration	campaign	pdays	previous	poutcome	emp.var.rate	cons.price.idx	cons.conf.idx	euribor3m	nr.employed
10505	59	retired	single	high.school	no	no	no	telephone	jun	tue	193	1	Not contacted	0	nonexistent					
13617	51	blue-collar	married	basic.4y	unknown	yes	no	telephone	jul	thu	38	1	Not contacted	0	nonexistent					

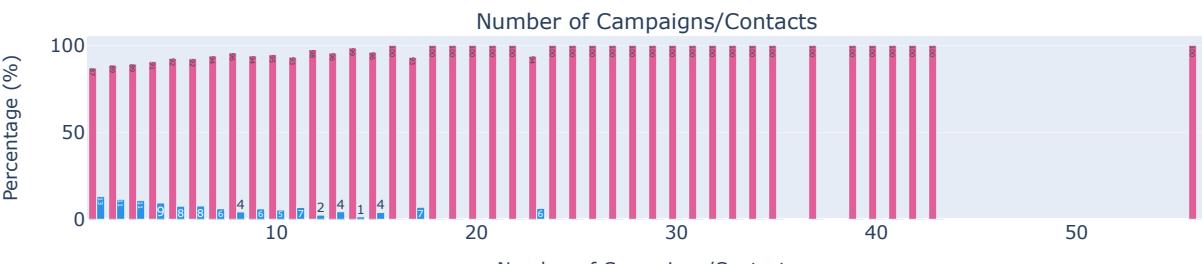
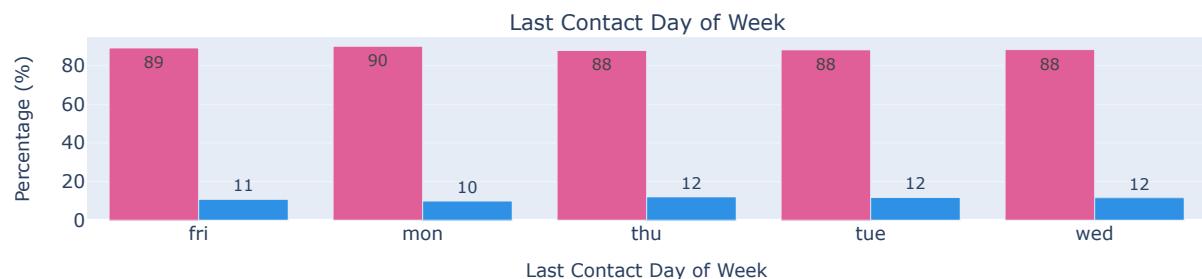
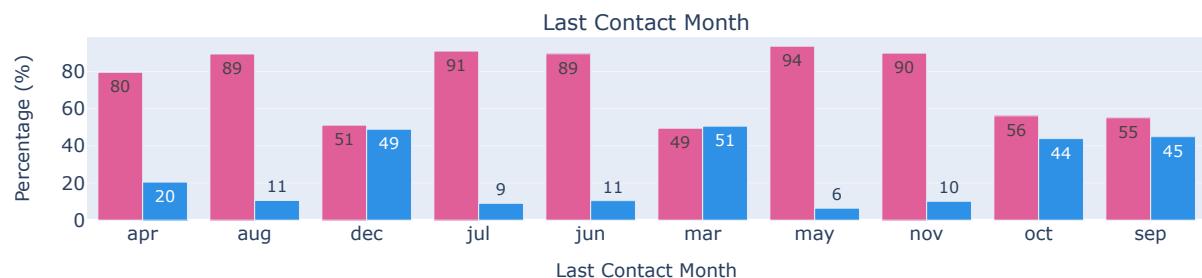
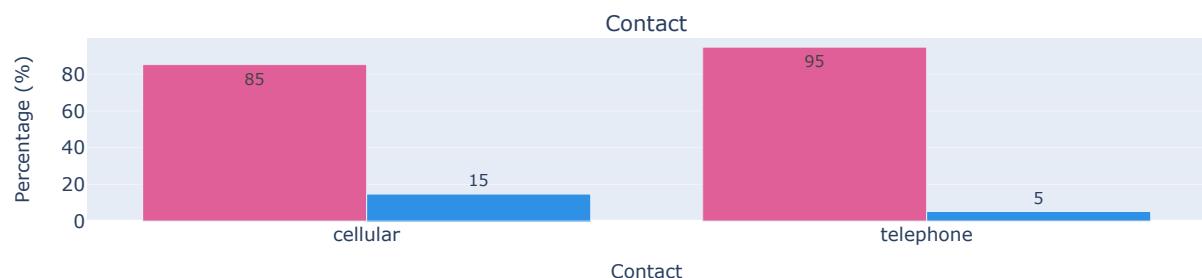
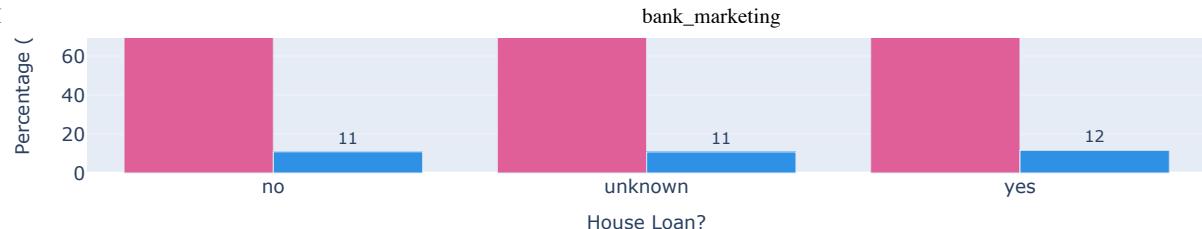
Below we will create plots for many features. The plots will show the percentage of 'yes' vs 'no' for the target variable

```
In [15]: #Define the features we want to plot with percentages
subset_cols = ['age', 'job', 'marital', 'education', 'default', 'housing', 'loan',
               'contact', 'month', 'day_of_week',
               'campaign', 'previous', 'poutcome',
               'emp.var.rate', 'cons.price.idx', 'cons.conf.idx',
               'nr.employed', 'y']

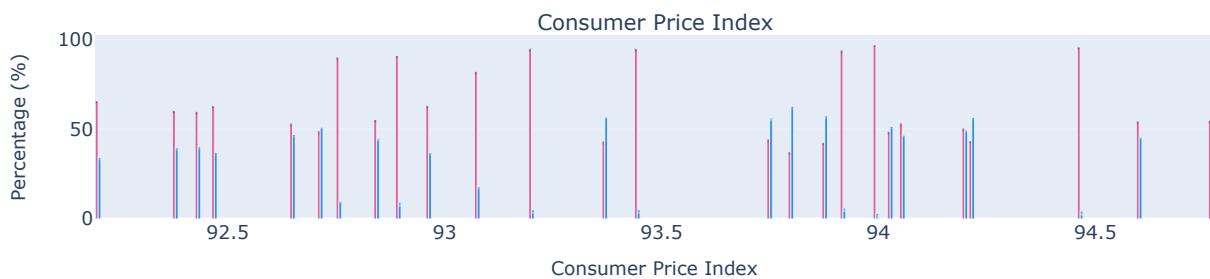
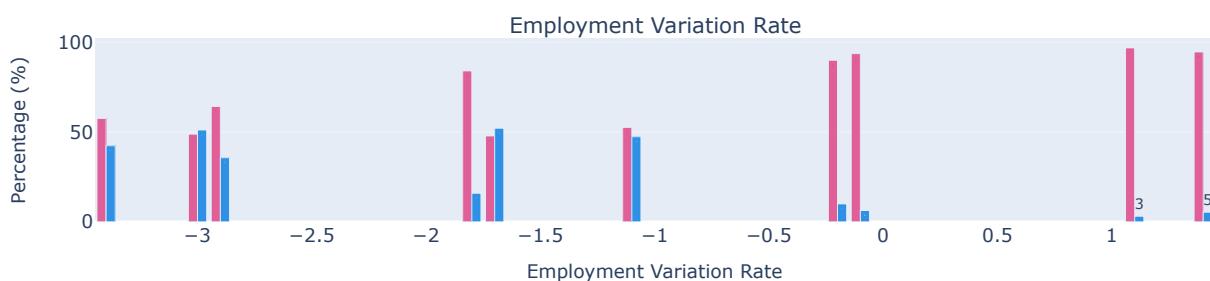
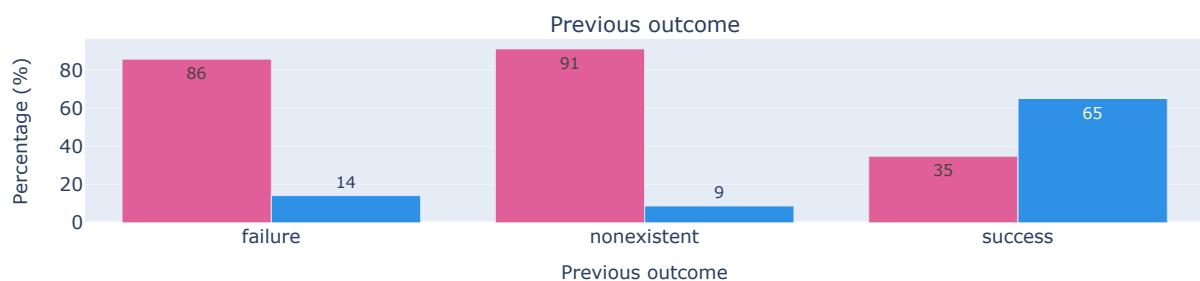
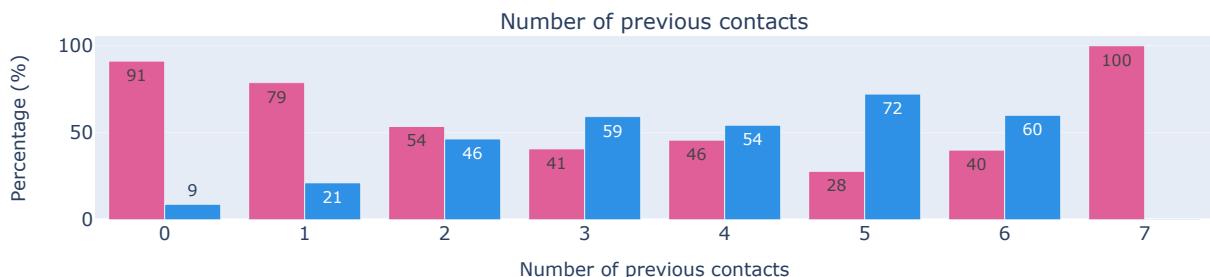
#Define the titles to be used on each individual subplot
subset_titles = ['Age', 'Occupation', 'Marital Status', 'Education', 'Defaulted?', 'House Loan?', 'Personal Loan?',
                 'Contact', 'Last Contact Month', 'Last Contact Day of Week',
                 'Number of Campaigns/Contacts', 'Number of previous contacts', 'Previous outcome',
                 'Employment Variation Rate', 'Consumer Price Index', 'Consumer Confidence Index',
                 'Number of Employees QI']

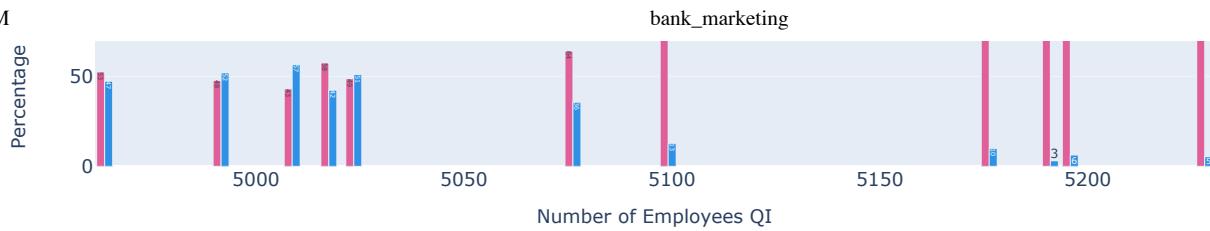
# Call Function to create bar plots for each feature showing the percentage of 'yes' vs 'no' for the target variable 'y'
plot.plot_percentage_barplots(df_edits[subset_cols],
                               subp_titles=subset_titles,
                               legend_title = 'Success?',
                               figure_title = 'Percentage Distribution of Features by Subscription Status',
                               row_height = 270)
```





bank_marketing
NUMBER OF CAMPAIGNS/CONTACTS





Distribution and Success Rates for Age

```
In [512]: common_fontsize = 19.5
feature_name = 'Age'
n = 5 # Show every 5th xtick

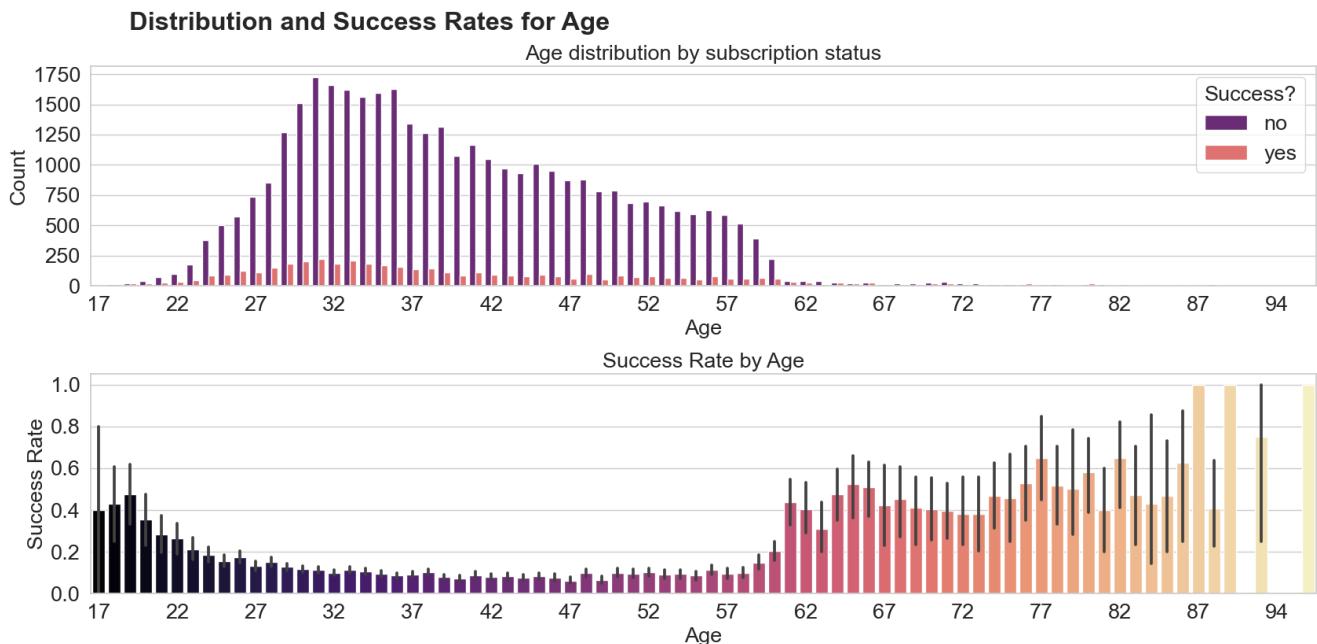
plt.figure(figsize=(17, 8))
sns.set(style="whitegrid", font_scale=1)

plt.subplot(2, 1, 1)
sns.countplot(data=df_edits, x='age', hue='y', palette='magma')
plt.title(f'{feature_name} distribution by subscription status', fontsize=common_fontsize)
plt.xlabel(f'{feature_name}', fontsize=common_fontsize)
plt.ylabel('Count', fontsize=common_fontsize)
plt.xticks(ticks=plt.xticks()[0][::n], labels=plt.xticks()[1][::n], fontsize=common_fontsize)
plt.yticks(fontsize=common_fontsize)
plt.legend(title='Success?', title_fontsize=common_fontsize, fontsize=common_fontsize)

plt.subplot(2, 1, 2)
sns.barplot(data=df_viz, x='age', y='y', palette='magma')
plt.title(f'Success Rate by {feature_name}', fontsize=common_fontsize)
plt.xlabel(f'{feature_name}', fontsize=common_fontsize)
plt.ylabel('Success Rate', fontsize=common_fontsize)
plt.xticks(ticks=plt.xticks()[0][::n], labels=plt.xticks()[1][::n], fontsize=common_fontsize)
plt.yticks(fontsize=common_fontsize)

plt.tight_layout(h_pad=1.09)
banner_y = 1.05
plt.suptitle(f'Distribution and Success Rates for {feature_name}', fontsize=common_fontsize + 4, weight='bold',
            x=0.1, y=banner_y - 0.02, ha='left')
```

Out[512]: Text(0.1, 1.03, 'Distribution and Success Rates for Age')



Distribution and Success Rates for Occupation

```
In [315]: common_fontsize = 19.5
feature_name = 'Occupation'
n = 1 # Show every 5th xtick

plt.figure(figsize=(17, 8))
sns.set(style="whitegrid", font_scale=1)

plt.subplot(2, 1, 1)
sns.countplot(data=df_edits, x='job', hue='y', palette='magma')
```

```

plt.title(f'{feature_name} distribution by subscription status', fontsize=common_fontsize)
plt.xlabel(f'{feature_name}', fontsize=common_fontsize)
plt.ylabel('Count', fontsize=common_fontsize)
plt.xticks(ticks=plt.xticks()[0][::n], labels=plt.xticks()[1][::n], fontsize=common_fontsize, rotation=30)
plt.yticks(fontsize=common_fontsize)
plt.legend(title='Success?', title_fontsize=common_fontsize, fontsize=common_fontsize)

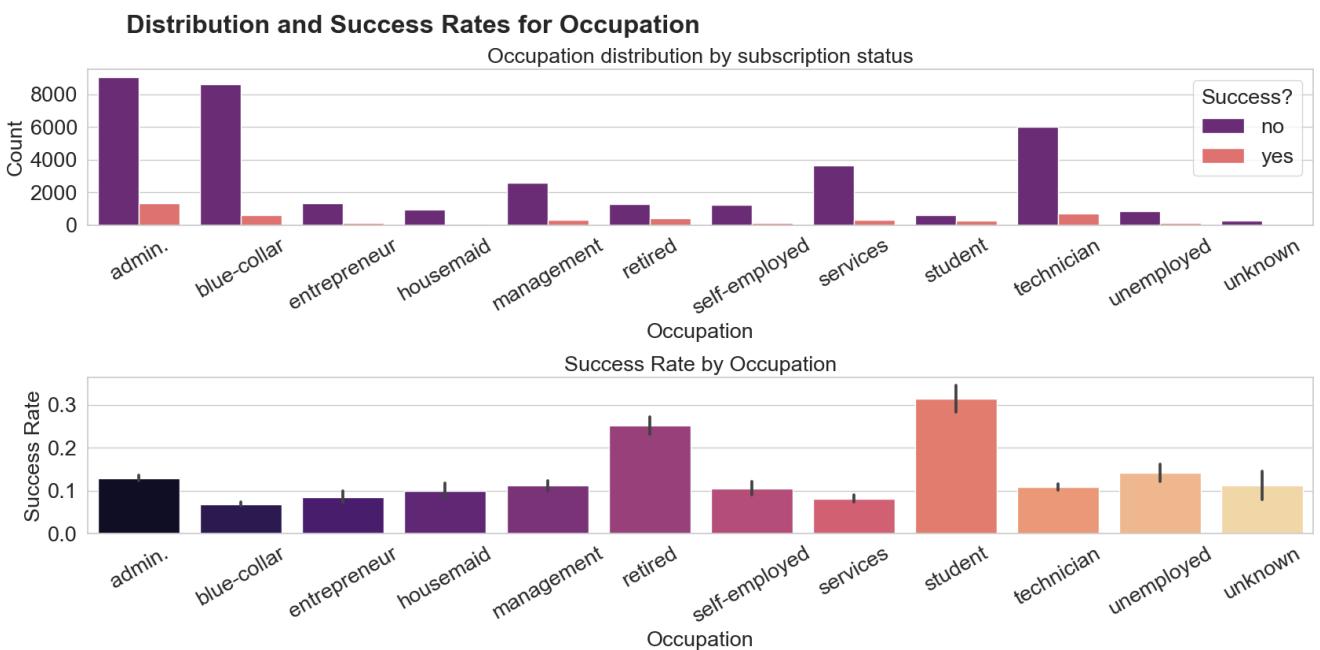
plt.subplot(2, 1, 2)
sns.barplot(data=df_viz, x='job', y='y', palette='magma')
plt.title(f'Success Rate by {feature_name}', fontsize=common_fontsize)
plt.xlabel(f'{feature_name}', fontsize=common_fontsize)
plt.ylabel('Success Rate', fontsize=common_fontsize)
plt.xticks(ticks=plt.xticks()[0][::n], labels=plt.xticks()[1][::n], fontsize=common_fontsize, rotation=30)

plt.yticks(fontsize=common_fontsize)

plt.tight_layout(h_pad=1.09)
banner_y = 1.05
plt.suptitle(f'Distribution and Success Rates for {feature_name}',
            fontsize=common_fontsize + 4, weight='bold',
            x=0.1, y=banner_y-0.02, ha='left')

```

Out[315]: Text(0.1, 1.03, 'Distribution and Success Rates for Occupation')



Distribution and Success Rates for Education

```

In [316]:
common_fontsize = 19.5
feature_name = 'Education'
n = 1 # Show every 5th xtick

plt.figure(figsize=(17, 8))
sns.set(style="whitegrid", font_scale=1)

plt.subplot(2, 1, 1)
sns.countplot(data=df_edits, x='education', hue='y', palette='magma')
plt.title(f'{feature_name} distribution by subscription status', fontsize=common_fontsize)
plt.xlabel(f'{feature_name}', fontsize=common_fontsize)
plt.ylabel('Count', fontsize=common_fontsize)
plt.xticks(ticks=plt.xticks()[0][::n], labels=plt.xticks()[1][::n], fontsize=common_fontsize, rotation=30)
plt.yticks(fontsize=common_fontsize)
plt.legend(title='Success?', title_fontsize=common_fontsize, fontsize=common_fontsize)

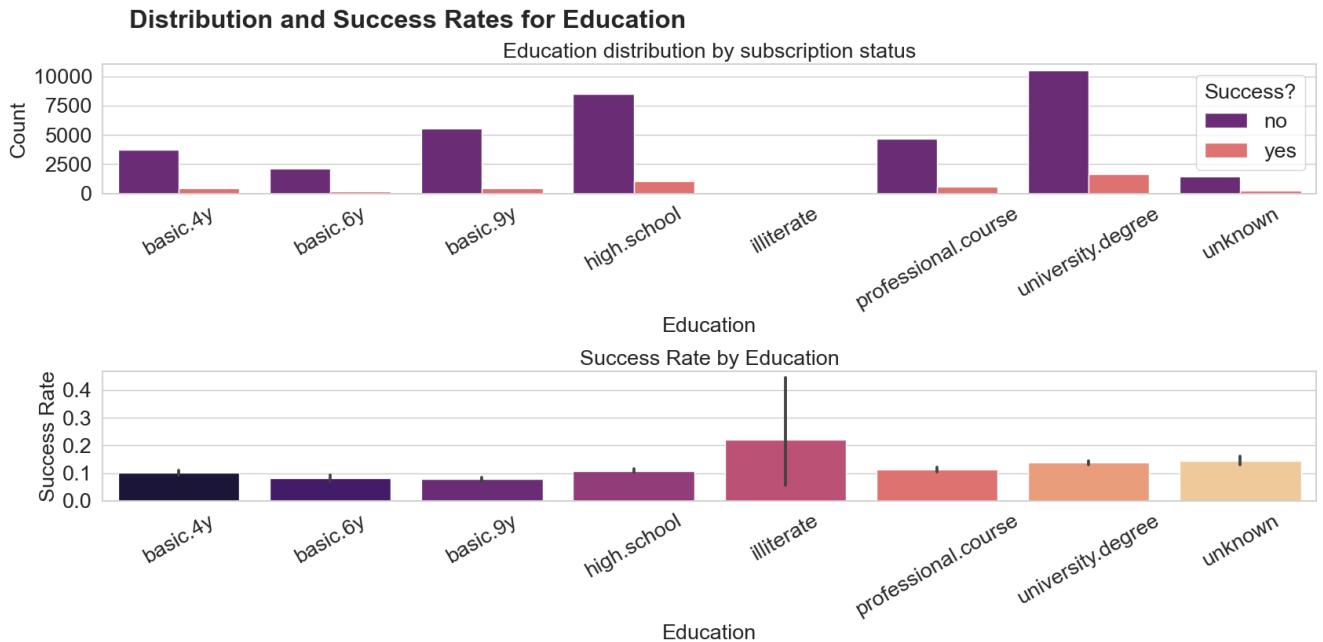
plt.subplot(2, 1, 2)
sns.barplot(data=df_viz, x='education', y='y', palette='magma')
plt.title(f'Success Rate by {feature_name}', fontsize=common_fontsize)
plt.xlabel(f'{feature_name}', fontsize=common_fontsize)
plt.ylabel('Success Rate', fontsize=common_fontsize)
plt.xticks(ticks=plt.xticks()[0][::n], labels=plt.xticks()[1][::n], fontsize=common_fontsize, rotation=30)

plt.yticks(fontsize=common_fontsize)

plt.tight_layout(h_pad=1.09)
banner_y = 1.05
plt.suptitle(f'Distribution and Success Rates for {feature_name}',
            fontsize=common_fontsize + 4, weight='bold',
            x=0.1, y=banner_y-0.02, ha='left')

```

Out[316]: Text(0.1, 1.03, 'Distribution and Success Rates for Education')



Distribution and Success Rates for Number of Calls During This Campaign

```
In [317]: common_fontsize = 19.5
feature_name = 'Number of Calls During This Campaign'

plt.figure(figsize=(17, 8))
sns.set(style="whitegrid", font_scale=1)

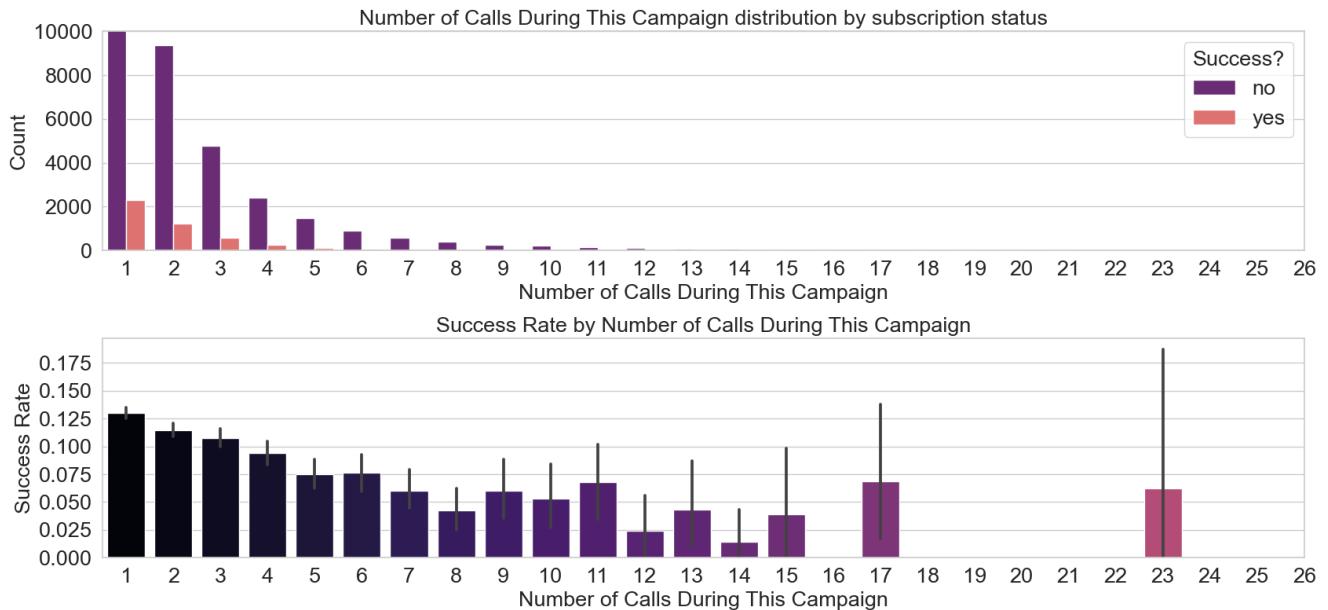
plt.subplot(2, 1, 1)
sns.countplot(data=df_edits, x='campaign', hue='y', palette='magma')
plt.title(f'{feature_name} distribution by subscription status', fontsize=common_fontsize)
plt.xlabel(f'{feature_name}', fontsize=common_fontsize)
plt.ylabel('Count', fontsize=common_fontsize)
plt.xlim(-0.5, 25)
plt.ylim(0, 10_000)
plt.xticks(fontsize=common_fontsize)
plt.yticks(fontsize=common_fontsize)
plt.legend(title='Success?', title_fontsize=common_fontsize, fontsize=common_fontsize)

plt.subplot(2, 1, 2)
sns.barplot(data=df_viz, x='campaign', y='y', palette='magma')
plt.title(f'Success Rate by {feature_name}', fontsize=common_fontsize)
plt.xlabel(f'{feature_name}', fontsize=common_fontsize)
plt.ylabel('Success Rate', fontsize=common_fontsize)
plt.xlim(-0.5, 25)
plt.xticks(fontsize=common_fontsize)
plt.yticks(fontsize=common_fontsize)

plt.tight_layout(h_pad=1.09)
banner_y = 1.05
plt.suptitle(f" Distribution and Success Rates for {feature_name}",
            fontsize=common_fontsize + 4, weight='bold',
            x=0.1, y=banner_y-0.02, ha='left')

Out[317]: Text(0.1, 1.03, ' Distribution and Success Rates for Number of Calls During This Campaign')
```

Distribution and Success Rates for Number of Calls During This Campaign



Distribution and Success Rates for Days since last contacted

```
In [318]: common_fontsize =17
plt.figure(figsize=(17, 13))
sns.set(style="whitegrid", font_scale=1)

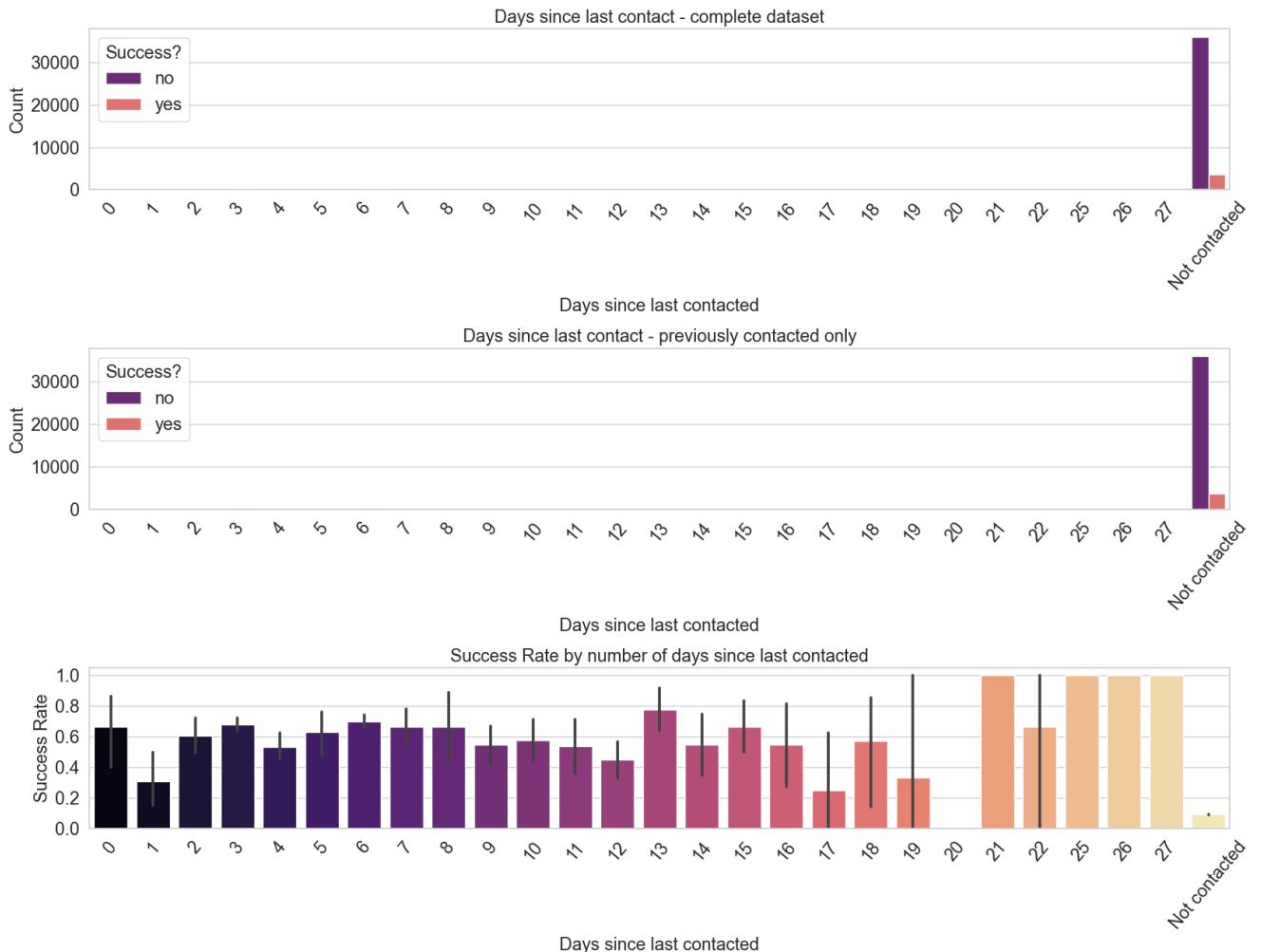
plt.subplot(3,1,1)
sns.countplot(data=df_edits, x='pdays', hue='y', palette='magma')
plt.title('Days since last contact - complete dataset', fontsize=common_fontsize)
plt.xlabel('Days since last contacted', fontsize=common_fontsize)
plt.ylabel('Count', fontsize=common_fontsize)
plt.xticks(fontsize=common_fontsize, rotation=50)
plt.yticks(fontsize=common_fontsize)
plt.legend(title='Success?', title_fontsize=common_fontsize, fontsize=common_fontsize)

plt.subplot(3, 1, 2)
sns.countplot(data=df_edits[df_edits['pdays'] != 999], x='pdays', hue='y', palette='magma')
plt.title('Days since last contact - previously contacted only', fontsize=common_fontsize)
plt.xlabel('Days since last contacted', fontsize=common_fontsize)
plt.ylabel('Count', fontsize=common_fontsize)
plt.xticks(fontsize=common_fontsize, rotation=50)
plt.yticks(fontsize=common_fontsize)
plt.legend(title='Success?', title_fontsize=common_fontsize, fontsize=common_fontsize)

plt.subplot(3, 1, 3)
sns.barplot(data=df_viz, x='pdays', y='y', palette='magma')
plt.title('Success Rate by number of days since last contacted', fontsize=common_fontsize)
plt.xlabel('Days since last contacted', fontsize=common_fontsize)
plt.ylabel('Success Rate', fontsize=common_fontsize)
plt.xticks(fontsize=common_fontsize, rotation=50)
plt.yticks(fontsize=common_fontsize)

plt.tight_layout(h_pad=1.09)
banner_y = 1.05
plt.suptitle(f" Distribution and Success Rates for Days since last contacted",
            fontsize=common_fontsize + 4, weight='bold',
            x=0.1, y=banner_y-0.02, ha='left')
```

```
Out[318]: Text(0.1, 1.03, ' Distribution and Success Rates for Days since last contacted')
```

Distribution and Success Rates for Days since last contacted**Distribution and Success Rates for Number of Calls from Previous Campaigns**

```
In [319]: common_fontsize = 19.5
feature_name = 'Number of Calls from Previous Campaigns'
n=1
plt.figure(figsize=(17, 8))
sns.set(style="whitegrid", font_scale=1)

plt.subplot(2, 1, 1)
sns.countplot(data=df_edits, x='previous', hue='y', palette='magma')
plt.title(f'{feature_name} distribution by subscription status', fontsize=common_fontsize)
# plt.xlabel(f'{feature_name}', fontsize=common_fontsize)
plt.xticks(ticks=plt.xticks()[0][::n], labels=plt.xticks()[1][::n], fontsize=common_fontsize)
plt.ylabel('Count', fontsize=common_fontsize)
plt.xticks(fontsize=common_fontsize)
plt.yticks(fontsize=common_fontsize)
plt.legend(title='Success?', title_fontsize=common_fontsize, fontsize=common_fontsize)

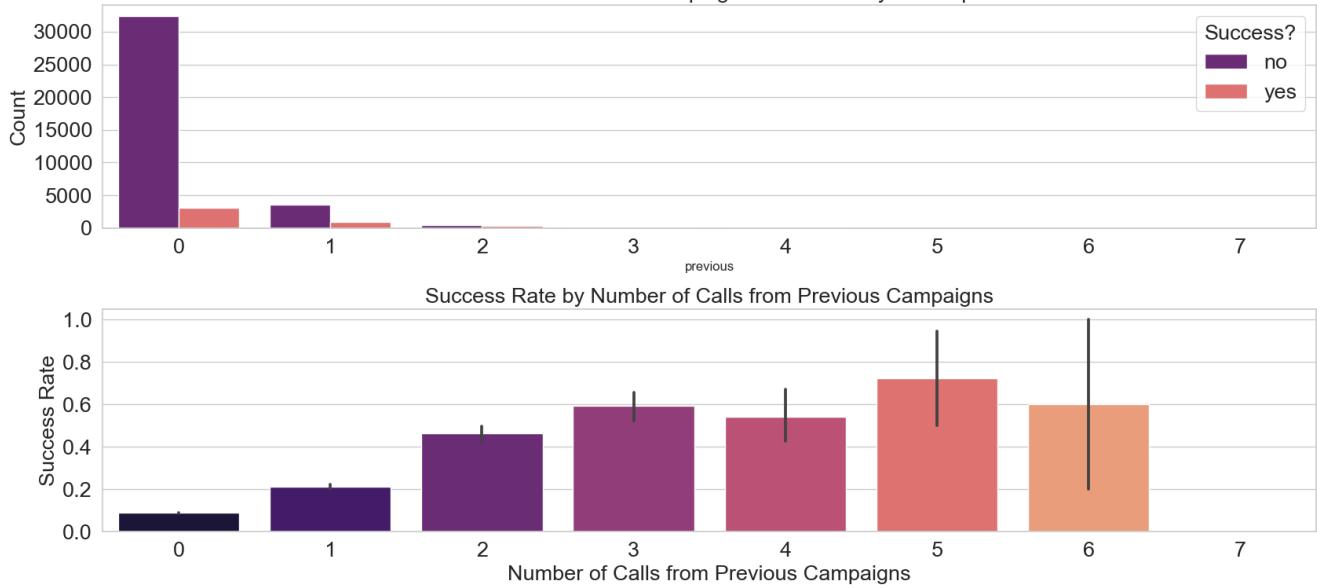
plt.subplot(2, 1, 2)
sns.barplot(data=df_viz, x='previous', y='y', palette='magma')
plt.title(f'Success Rate by {feature_name}', fontsize=common_fontsize)
plt.xlabel(f'{feature_name}', fontsize=common_fontsize)
plt.ylabel('Success Rate', fontsize=common_fontsize)
plt.xticks(ticks=plt.xticks()[0][::n], labels=plt.xticks()[1][::n], fontsize=common_fontsize)
plt.yticks(fontsize=common_fontsize)

plt.tight_layout(h_pad=1.09)
banner_y = 1.05
plt.suptitle(f'Distribution and Success Rates for {feature_name}',
            fontsize=common_fontsize + 4, weight='bold',
            x=0.1, y=banner_y-0.02, ha='left')
```

Out[319]: Text(0.1, 1.03, 'Distribution and Success Rates for Number of Calls from Previous Campaigns')

Distribution and Success Rates for Number of Calls from Previous Campaigns

Number of Calls from Previous Campaigns distribution by subscription status



Distribution and Success Rates for Outcome from Previous Campaign

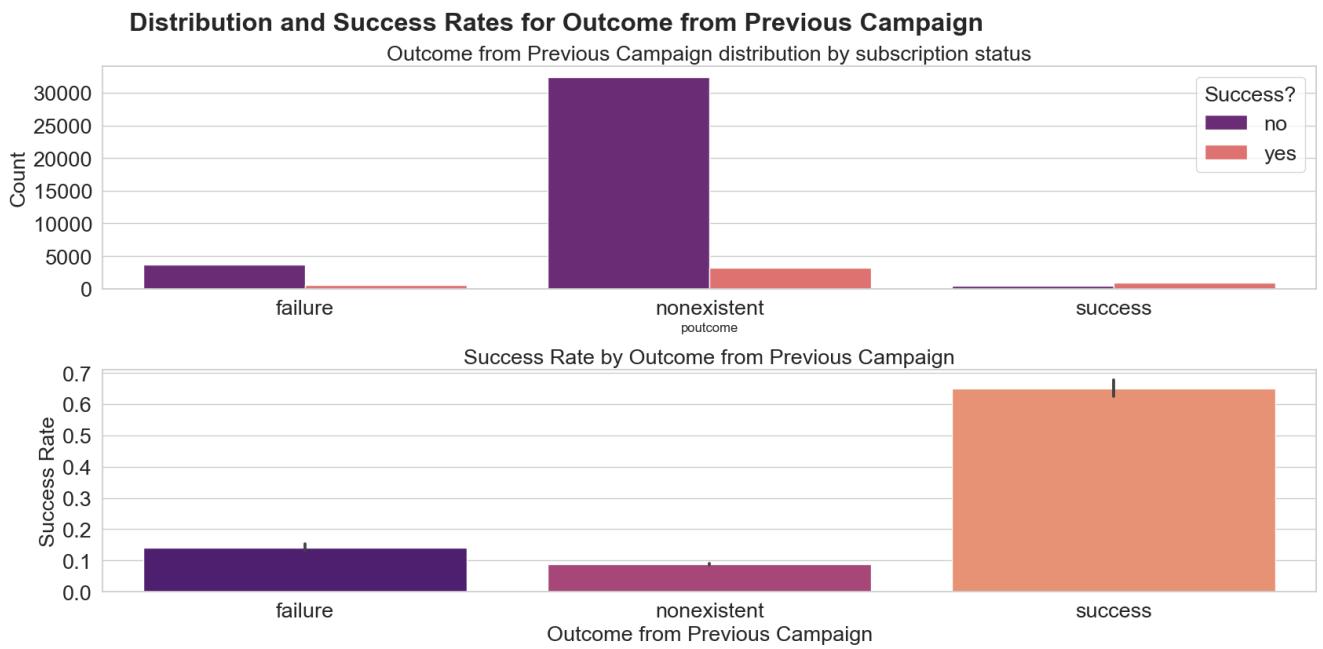
```
In [320]: common_fontsize = 19.5
feature_name = 'Outcome from Previous Campaign'
n=1
plt.figure(figsize=(17, 8))
sns.set(style="whitegrid", font_scale=1)

plt.subplot(2,1,1)
sns.countplot(data=df_edits, x='poutcome', hue='y', palette='magma')
plt.title(f'{feature_name} distribution by subscription status', fontsize=common_fontsize)
# plt.xlabel(f'{feature_name}', fontsize=common_fontsize)
plt.xticks(ticks=plt.xticks()[0][::n], labels=plt.xticks()[1][::n], fontsize=common_fontsize)
plt.ylabel('Count', fontsize=common_fontsize)
plt.xticks(fontsize=common_fontsize)
plt.yticks(fontsize=common_fontsize)
plt.legend(title='Success?', title_fontsize=common_fontsize, fontsize=common_fontsize)

plt.subplot(2, 1, 2)
sns.barplot(data=df_viz, x='poutcome', y='y', palette='magma')
plt.title(f'Success Rate by {feature_name}', fontsize=common_fontsize)
plt.xlabel(f'{feature_name}', fontsize=common_fontsize)
plt.ylabel('Success Rate', fontsize=common_fontsize)
plt.xticks(ticks=plt.xticks()[0][::n], labels=plt.xticks()[1][::n], fontsize=common_fontsize)
plt.yticks(fontsize=common_fontsize)

plt.tight_layout(h_pad=1.09)
banner_y = 1.05
plt.suptitle(f'Distribution and Success Rates for {feature_name}',
            fontsize=common_fontsize + 4, weight='bold',
            x=0.1, y=banner_y-0.02, ha='left')
```

Out[320]: Text(0.1, 1.03, 'Distribution and Success Rates for Outcome from Previous Campaign')



Distribution and Success Rates for Outcome from Quarterly Employment Variation Rate

```
In [321]: common_fontsize =19.5
n = 2
feature_name = 'Quarterly Employment Variation Rate'

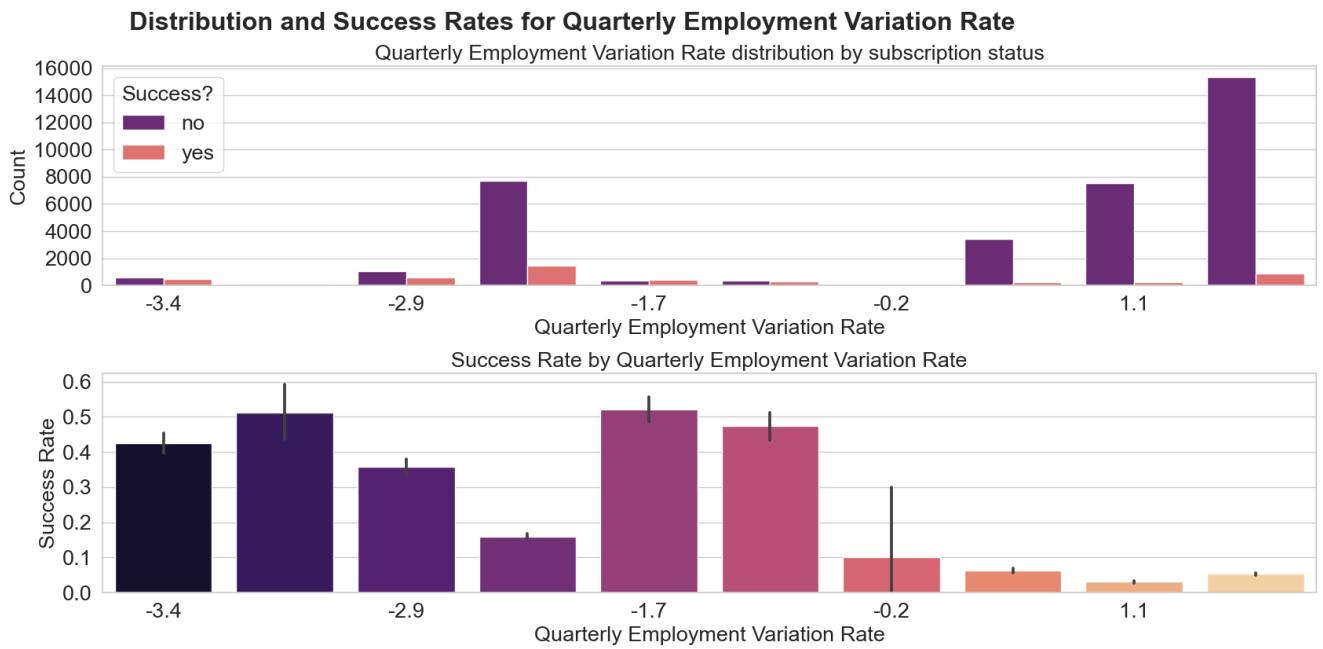
plt.figure(figsize=(17, 8))
sns.set(style="whitegrid", font_scale=1)

plt.subplot(2,1,1)
sns.countplot(data=df_edits, x='emp.var.rate',hue='y', palette='magma')
plt.title(f'{feature_name} distribution by subscription status',fontsize=common_fontsize)
plt.xlabel(f'{feature_name}',fontsize=common_fontsize)
plt.ylabel('Count',fontsize=common_fontsize)
plt.xticks(ticks=plt.xticks()[0][::n], labels=plt.xticks()[1][::n], fontsize=common_fontsize)
plt.yticks(fontsize=common_fontsize)
plt.legend(title='Success?', title_fontsize=common_fontsize, fontsize=common_fontsize)

plt.subplot(2, 1, 2)
sns.barplot(data=df_viz, x='emp.var.rate',y='y', palette='magma')
plt.title(f'Success Rate by {feature_name}',fontsize=common_fontsize)
plt.xlabel(f'{feature_name}',fontsize=common_fontsize)
plt.ylabel('Success Rate',fontsize=common_fontsize)
plt.xticks(ticks=plt.xticks()[0][::n], labels=plt.xticks()[1][::n], fontsize=common_fontsize)
plt.yticks(fontsize=common_fontsize)

plt.tight_layout(h_pad=1.09)
banner_y = 1.05
plt.suptitle(f"Distribution and Success Rates for {feature_name}",
            fontsize=common_fontsize + 4, weight='bold',
            x=0.1, y=banner_y-0.02, ha='left')

Out[321]: Text(0.1, 1.03, 'Distribution and Success Rates for Quarterly Employment Variation Rate')
```



Distribution and Success Rates for Outcome from Consumer Price Index

```
In [322]: common_fontsize = 19.5
n = 2
feature_name = 'Consumer Price Index'

plt.figure(figsize=(17, 8))
sns.set(style="whitegrid", font_scale=1)

plt.subplot(2, 1, 1)
sns.countplot(data=df_edits, x='cons.price.idx', hue='y', palette='magma')
plt.title(f'{feature_name} distribution by subscription status', fontsize=common_fontsize)
plt.xlabel(f'{feature_name}', fontsize=common_fontsize)
plt.ylabel('Count', fontsize=common_fontsize)
plt.xticks(ticks=plt.xticks()[0][1::n], labels=plt.xticks()[1][1::n], fontsize=common_fontsize)
plt.yticks(fontsize=common_fontsize)
plt.legend(title='Success?', title_fontsize=common_fontsize, fontsize=common_fontsize)

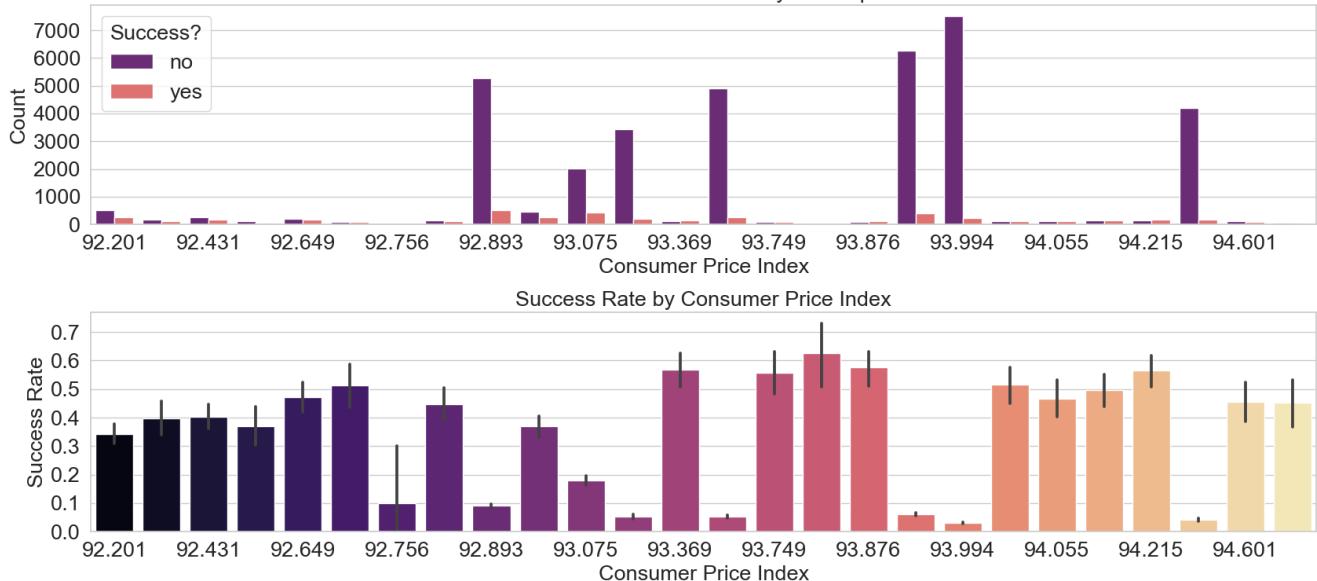
plt.subplot(2, 1, 2)
sns.barplot(data=df_viz, x='cons.price.idx', y='y', palette='magma')
plt.title(f'Success Rate by {feature_name}', fontsize=common_fontsize)
plt.xlabel(f'{feature_name}', fontsize=common_fontsize)
plt.ylabel('Success Rate', fontsize=common_fontsize)
plt.xticks(ticks=plt.xticks()[0][1::n], labels=plt.xticks()[1][1::n], fontsize=common_fontsize)
plt.yticks(fontsize=common_fontsize)

plt.tight_layout(h_pad=1.09)
banner_y = 1.05
plt.suptitle(f'Distribution and Success Rates for {feature_name}',
            fontsize=common_fontsize + 4, weight='bold',
            x=0.1, y=banner_y-0.02, ha='left')
```

Out[322]: Text(0.1, 1.03, 'Distribution and Success Rates for Consumer Price Index')

Distribution and Success Rates for Consumer Price Index

Consumer Price Index distribution by subscription status



Distribution and Success Rates for Outcome from Consumer Confidence Index

```
In [323]: common_fontsize = 19.5
n = 2
feature_name = 'Consumer Confidence Index'

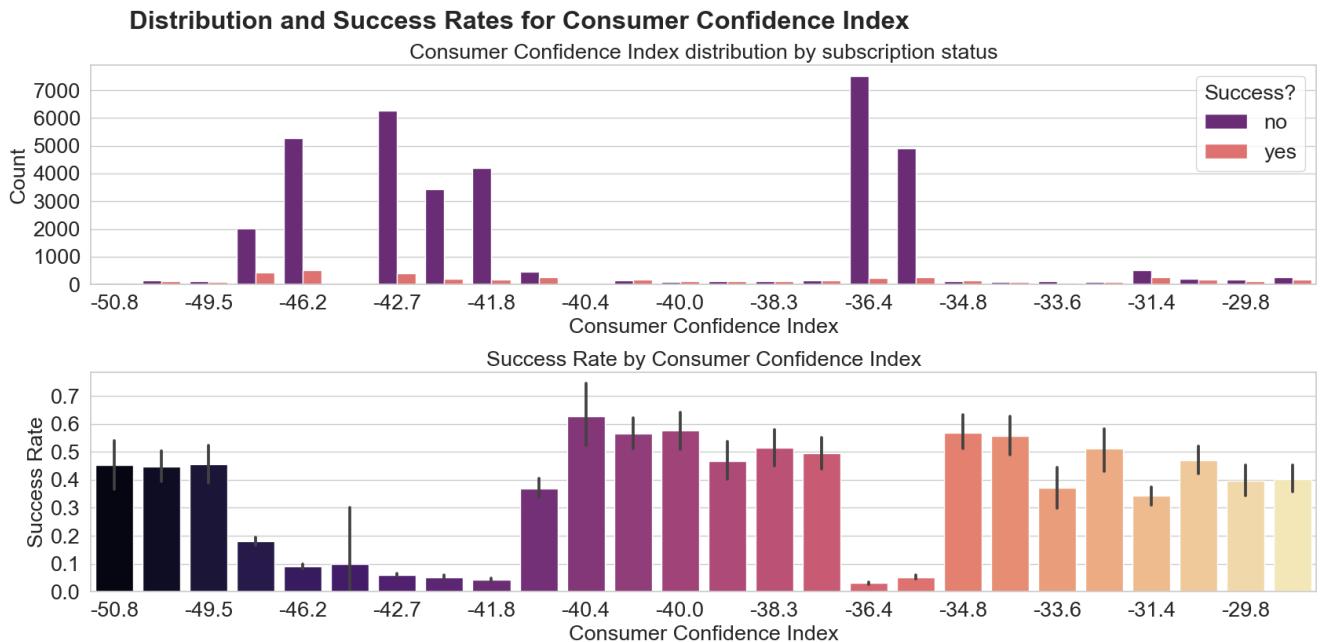
plt.figure(figsize=(17, 8))
sns.set(style="whitegrid", font_scale=1)

plt.subplot(2,1,1)
sns.countplot(data=df_edits, x='cons.conf.idx', hue='y', palette='magma')
plt.title(f'{feature_name} distribution by subscription status', fontsize=common_fontsize)
plt.xlabel(f'{feature_name}', fontsize=common_fontsize)
plt.ylabel('Count', fontsize=common_fontsize)
plt.xticks(ticks=plt.xticks()[0][::n], labels=plt.xticks()[1][::n], fontsize=common_fontsize)
plt.yticks(fontsize=common_fontsize)
plt.legend(title='Success?', title_fontsize=common_fontsize, fontsize=common_fontsize)

plt.subplot(2, 1, 2)
sns.barplot(data=df_viz, x='cons.conf.idx', y='y', palette='magma')
plt.title(f'Success Rate by {feature_name}', fontsize=common_fontsize)
plt.xlabel(f'{feature_name}', fontsize=common_fontsize)
plt.ylabel('Success Rate', fontsize=common_fontsize)
plt.xticks(ticks=plt.xticks()[0][::n], labels=plt.xticks()[1][::n], fontsize=common_fontsize)
plt.yticks(fontsize=common_fontsize)

plt.tight_layout(h_pad=1.09)
banner_y = 1.05
plt.suptitle(f'Distribution and Success Rates for {feature_name}',
            fontsize=common_fontsize + 4, weight='bold',
            x=0.1, y=banner_y-0.02, ha='left')
```

Out[323]: Text(0.1, 1.03, 'Distribution and Success Rates for Consumer Confidence Index')



Distribution and Success Rates for Outcome from Quarterly Number of Employees

```
In [324]: common_fontsize = 19.5
n = 1
feature_name = 'Quarterly Number of Employees'

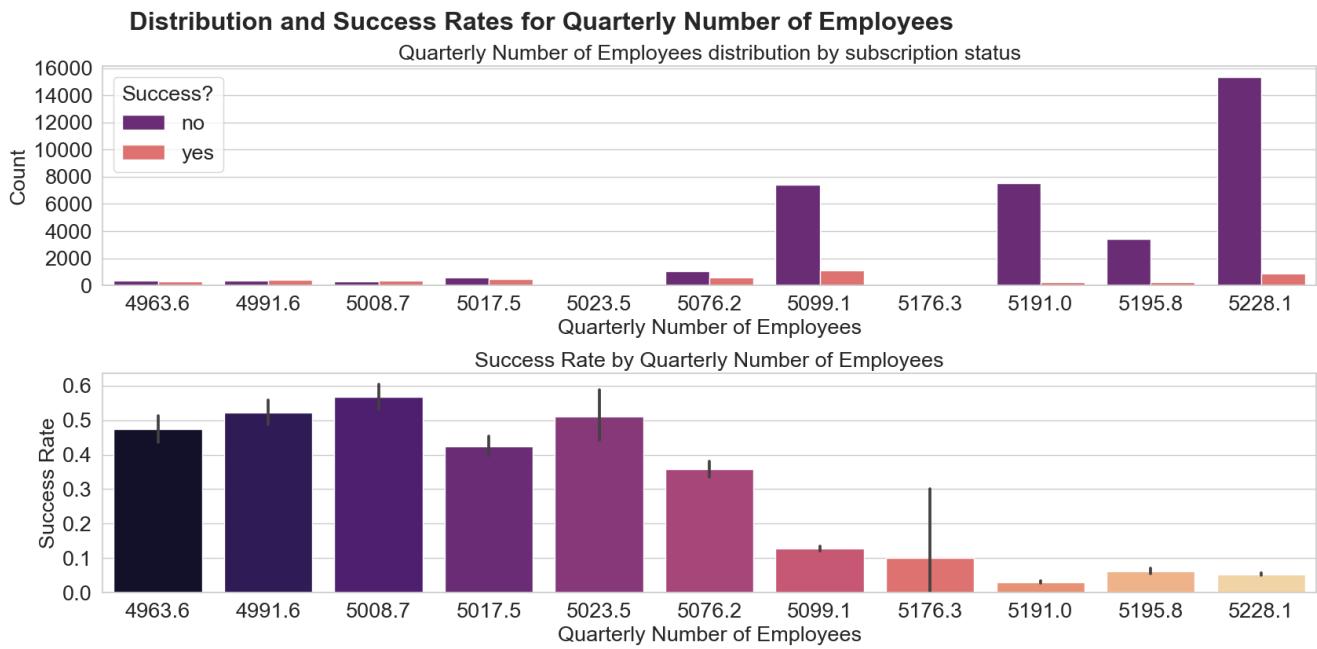
plt.figure(figsize=(17, 8))
sns.set(style="whitegrid", font_scale=1)

plt.subplot(2, 1, 1)
sns.countplot(data=df_edits, x='nr.employed', hue='y', palette='magma')
plt.title(f'{feature_name} distribution by subscription status', fontsize=common_fontsize)
plt.xlabel(f'{feature_name}', fontsize=common_fontsize)
plt.ylabel('Count', fontsize=common_fontsize)
plt.xticks(ticks=plt.xticks()[0][1::n], labels=plt.xticks()[1][1::n], fontsize=common_fontsize)
plt.yticks(fontsize=common_fontsize)
plt.legend(title='Success?', title_fontsize=common_fontsize, fontsize=common_fontsize)

plt.subplot(2, 1, 2)
sns.barplot(data=df_viz, x='nr.employed', y='y', palette='magma')
plt.title(f'Success Rate by {feature_name}', fontsize=common_fontsize)
plt.xlabel(f'{feature_name}', fontsize=common_fontsize)
plt.ylabel('Success Rate', fontsize=common_fontsize)
plt.xticks(ticks=plt.xticks()[0][1::n], labels=plt.xticks()[1][1::n], fontsize=common_fontsize)
plt.yticks(fontsize=common_fontsize)

plt.tight_layout(h_pad=1.09)
banner_y = 1.05
plt.suptitle(f'Distribution and Success Rates for {feature_name}',
            fontsize=common_fontsize + 4, weight='bold',
            x=0.1, y=banner_y-0.02, ha='left')
```

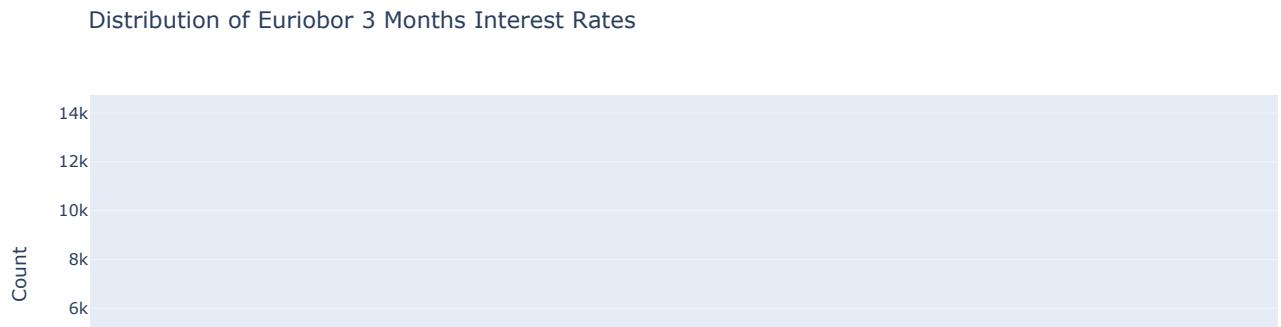
```
Out[324]: Text(0.1, 1.03, 'Distribution and Success Rates for Quarterly Number of Employees')
```



euribor3m came out better using plotly

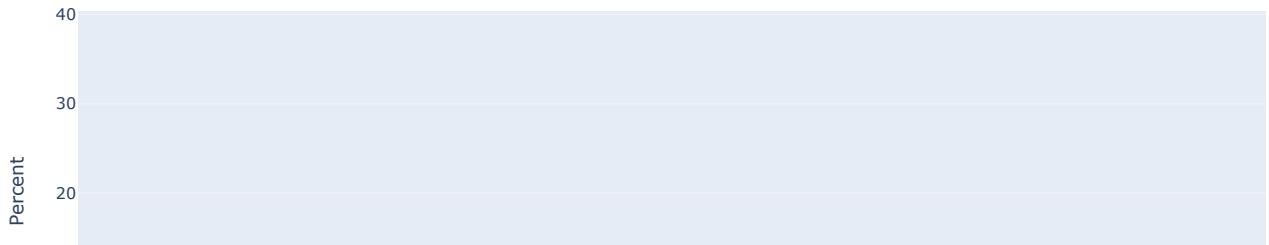
Below is one plot showing counts/distribution and the second showing success percentages

```
In [16]: fig = px.histogram(df_edits,x="euribor3m",color="y",barmode='overlay',
                         title="Distribution of Euribor 3 Months Interest Rates",
                         labels={"euribor3m": "Interest Rates", "y": "Success?"},color_discrete_sequence = px.colors.qualitative.Da
                         #range_x=(15,90), nbins = 76,
                         height=450
                     )
fig.update_layout(yaxis_title="Count")
fig.show('notebook')
```



```
In [17]: fig = px.histogram(df_edits,x="euribor3m",color="y",barmode='overlay', histnorm='percent',
                         title="Success Percentages by Euribor 3 Months Interest Rates",
                         labels={"euribor3m": "Interest Rates", "y": "Success?"},color_discrete_sequence = px.colors.qualitative.Da
                         #range_x=(15,90), nbins = 76
                         height=450
                     )
fig.update_layout(yaxis_title="Percent")
fig.show('notebook')
```

Success Percentages by Euribor 3 Months Interest Rates



Another view of economic features using violinplots

```
In [50]: common_fontsize =18
plt.figure(figsize=(17, 12))
sns.set(style="whitegrid", font_scale=1)

plt.subplot(2,2,1)
sns.violinplot(data=df_edits, x='y', y='euribor3m', palette='magma')
plt.title('Euribor 3 Month Rate by Subscription Status', fontsize=common_fontsize)
plt.xlabel('Subscription Status', fontsize=common_fontsize)
plt.ylabel('Euribor 3 Month Rate', fontsize=common_fontsize)
plt.xticks(fontsize=common_fontsize)
plt.yticks(fontsize=common_fontsize)

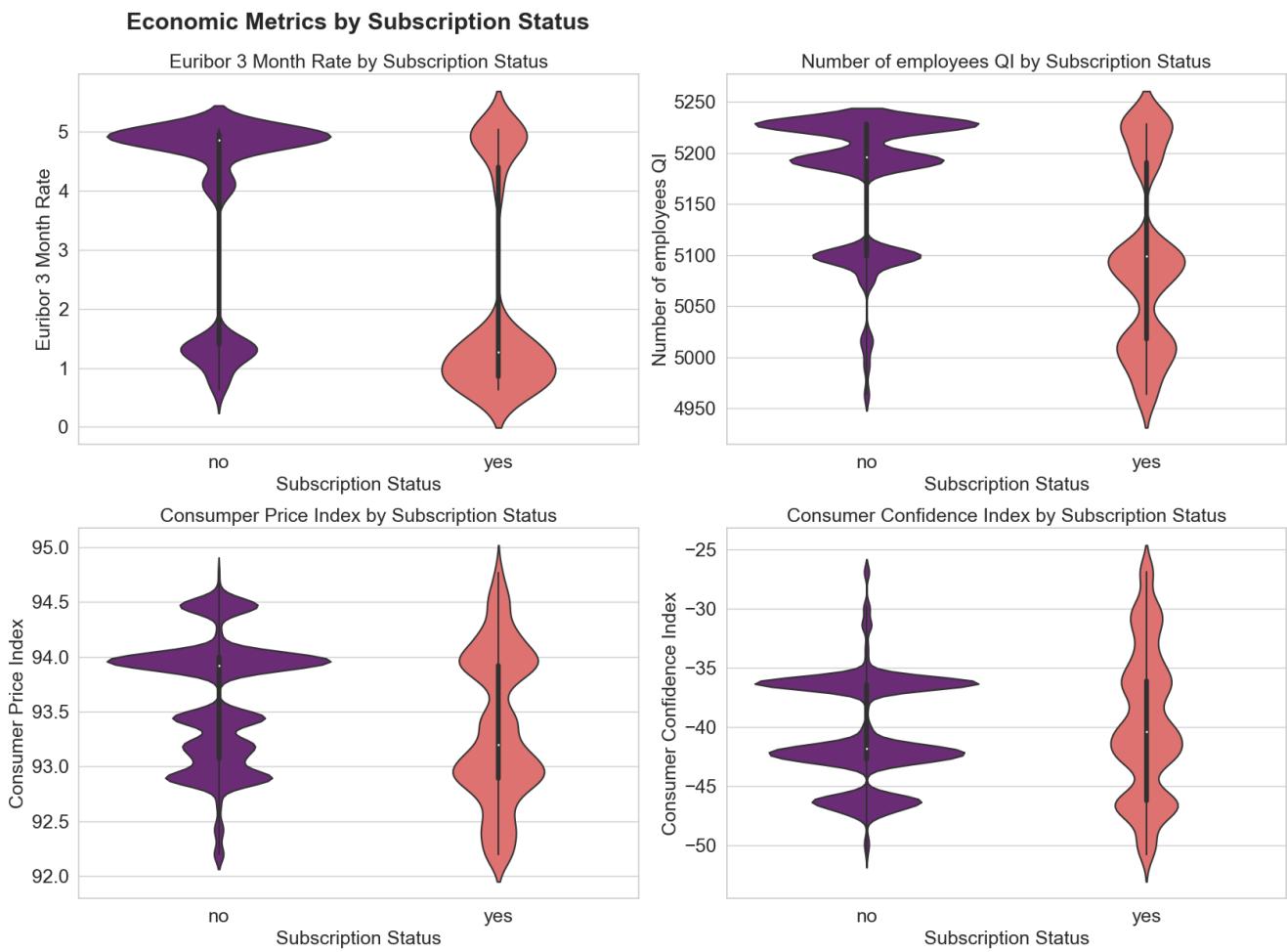
plt.subplot(2,2,2)
sns.violinplot(data=df_edits, x='y', y='nr.employed', palette='magma')
plt.title('Number of employees QI by Subscription Status', fontsize=common_fontsize)
plt.xlabel('Subscription Status', fontsize=common_fontsize)
plt.ylabel('Number of employees QI', fontsize=common_fontsize)
plt.xticks(fontsize=common_fontsize)
plt.yticks(fontsize=common_fontsize)

plt.subplot(2,2,3)
sns.violinplot(data=df_edits, x='y', y='cons.price.idx', palette='magma')
plt.title('Consumer Price Index by Subscription Status', fontsize=common_fontsize)
plt.xlabel('Subscription Status', fontsize=common_fontsize)
plt.ylabel('Consumer Price Index', fontsize=common_fontsize)
plt.xticks(fontsize=common_fontsize)
plt.yticks(fontsize=common_fontsize)

plt.subplot(2,2,4)
sns.violinplot(data=df_edits, x='y', y='cons.conf.idx', palette='magma')
plt.title('Consumer Confidence Index by Subscription Status', fontsize=common_fontsize)
plt.xlabel('Subscription Status', fontsize=common_fontsize)
plt.ylabel('Consumer Confidence Index', fontsize=common_fontsize)
plt.xticks(fontsize=common_fontsize)
plt.yticks(fontsize=common_fontsize)

plt.tight_layout(h_pad=1.09)
banner_y = 1.05
plt.suptitle(f"Economic Metrics by Subscription Status",
            fontsize=common_fontsize + 4, weight='bold',
            x=0.1, y=banner_y-0.02, ha='left')

Out[50]: Text(0.1, 1.03, 'Economic Metrics by Subscription Status')
```



Problem 3: Understanding the Features

General Observations

- Since pdays has a value of 999 to indicate that a client was not previously contacted, treating it as a continuous variable would distort the distribution and is very likely to affect modeling performance. We will convert the feature to categorical and update the 999s to 'Not contacted'
- All other features of type 'object' will be converted to 'category' for more efficient memory usage and processing. This would also allow us to define an order for visualizations. **Observations through Visualizations (and Pandas)**
- The target column shows **imbalance** with an overall subscription rate of 11.27% **Benchmark Feature: Duration**
- This will not be used for modeling, however the following observations were made:
 - Duration column shows that for calls shorter than 70s, no subscriptions are made
 - The mode of the duration is around 90-100s with only few clients subscribing
 - As the duration increases the subscription rate increases strongly **Heatmap correlation observations**
- The economic and employment indicators have strong positive correlations with each other
- Very low correlation among features related to the previous campaigns

Features that have a lot of variability in the subscription rate and are likely to have some importance:

- age**
 - Highest subscription rates below ~20 and especially above ~60
 - There are very few clients above 60
 - Estimated importance: Moderate to high
- default**
 - Clients who previously defaulted had a 0% subscription rate
 - We note the presence of an unknown category
 - Estimated importance: High
- contact**
 - customers contacted on their cell phone were 3 times more likely to subscribe
 - Estimated importance: High
- month**
 - Estimated importance: High
- campaign (number of calls during this campaign)**

- Most clients were contacted less than 8 times
- For 1-8 campaigns, as number of Campaigns/Calls increases, subscription rate generally decreases
- Little to no subscriptions when client was contacted more than ~17 times
- Estimated importance: High
- ##### pdays (days since last contacted from a previous campaign - repeat bus)
 - Vast majority of clients were clients who were never previously contacted and they had low subscription rates
 - Estimated importance: Moderate to High
- ##### previous (number of contacts performed before this campaign - prev campaign)
 - As number of previous contacts increases, the success rate generally increases
 - Estimated importance: High, Relationship is Linear
- ##### poutcome outcome of the previous marketing campaign
 - Having been contacted in a previous campaign increases chance of success even in the event of a previous failure
 - This feature likely has some interaction with previous and pdays
 - Estimated importance: Very high
- ##### emp.var.rate
 - As employment variation rate increases past ~0.5, success rates fall drastically even though banks have tried harder to make more calls
 - Estimated importance: Moderate to high
- ##### cons.price.idx and cons.conf.idx
 - These features show some variations
 - Estimated importance: Moderate
- ##### nr.employed
 - As the number of employees increases we see a general decrease in success rates
 - Somewhat linear relationship with target
 - Estimated importance: Moderate

Features that have less variability in subscription rates and likely to play a lesser role:

- ##### job
- ##### marital
- ##### education
- ##### housing
- ##### loan
- ##### day_of_week

Problem 4: Understanding the Task

After examining the description and data, your goal now is to clearly state the *Business Objective* of the task. State the objective below.

Business Objective:

Find the main characteristics that affect the success of a contact so that the bank can **increase its marketing efficiency**. i.e. Help the bank achieve a given number of successes for a lesser number of contacts thus saving it time and resources

The selected model will be evaluated against 2 criteria:

- **Performance**
 - We will use a carefully selected scoring metric and consider train/inference time
- **Explainability**
 - Ability to identify the most important features and explain their impact on the target. Depending on the selected model, we will do this through one or more of the following:
 - Interpreting model coefficients (inferential statistics)
 - Using Partial Dependence and ICE Plots
 - Model representations
 - LIFT curves
 - CounterFactuals
 - Actionable items for a non-technical audience

Problem 5: Engineering Features

Now that you understand your business objective, we will build a basic model to get started. Before we can do this, we must work to encode the data. Using just the bank information features (columns 1 - 7), prepare the features and target column for modeling with appropriate encoding and transformations.

```
In [18]: #Copy dataframe selecting only columns 1-7 and provide meaningful name: df_client
df_client = df_edits.copy().iloc[:,0:7]
df_client['y']=df_edits.y

#Define X and y
```

```
X,y=df_client.drop(columns='y'), df_client.y
df_client.info()

<class 'pandas.core.frame.DataFrame'>
RangeIndex: 41188 entries, 0 to 41187
Data columns (total 8 columns):
 #   Column      Non-Null Count  Dtype  
--- 
 0   age         41188 non-null   int64  
 1   job          41188 non-null   category
 2   marital     41188 non-null   category
 3   education   41188 non-null   category
 4   default     41188 non-null   category
 5   housing     41188 non-null   category
 6   loan         41188 non-null   category
 7   y            41188 non-null   category
dtypes: category(7), int64(1)
memory usage: 604.9 KB
```

Encoding choice

- For housing, loan and default, OneHotEncoding is the obvious choice.
 - For Education and Job we could consider Binary Encoding or James Stein Encoding, however, Job has the highest number of dimensions and that is 12. At the same time, we are using only 7 features (or less) and have a large dataset (40k+ samples), so our cardinality is not very high.
- Because of this and to improve our chances of getting higher scores, we will use one hot encoding for all categorical features

```
In [19]: #Define columns to be OneHotEncoded
ohe_cols= X.select_dtypes(include=['category']).columns
ohe_cols
```

```
Out[19]: Index(['job', 'marital', 'education', 'default', 'housing', 'loan'], dtype='object')
```

Having done a bit of research/reading [from this article from inmachineswetrust](#), we will not use drop = if_binary because we are likely to use regularization and/or non-linear models and per this article it is better to keep all columns

```
In [20]: #Define Simple Transformer
simple_transformer = ColumnTransformer(
    transformers=[
        ('ohe', OneHotEncoder(drop='if_binary', sparse_output=False), ohe_cols),
    ], remainder='passthrough')

#Test transformer
simple_transformer.fit(X,y)
```

```
Out[20]: ColumnTransformer
         (ohe, OneHotEncoder, remainder=passthrough)
```

```
In [ ]:
```

```
In [ ]:
```

Problem 6: Train/Test Split

With your data prepared, split it into a train and test set.

```
In [21]: X_train, X_test, y_train, y_test = train_test_split(X,y, stratify=y, random_state=42)
```

```
In [22]: X_train.shape, X_test.shape
```

```
Out[22]: ((30891, 7), (10297, 7))
```

```
In [ ]:
```

Problem 7: A Baseline Model

Before we build our first model, we want to establish a baseline. What is the baseline performance that our classifier should aim to beat?

We will use a DummyClassifier with default settings. Also we will use the default score method which is accuracy which also models the metric from model 9 so this makes sense to be able to compare scores.

```
In [23]: #Define and fit dummy baseline model
from sklearn.dummy import DummyClassifier
dummy_clf = DummyClassifier().fit(X_train, y_train)
```

```
In [24]: #Score baseline model
dummy_train_score = dummy_clf.score(X_train, y_train)
```

```
dummy_test_score = dummy_clf.score(X_test, y_test)
dummy_train_score, dummy_test_score
```

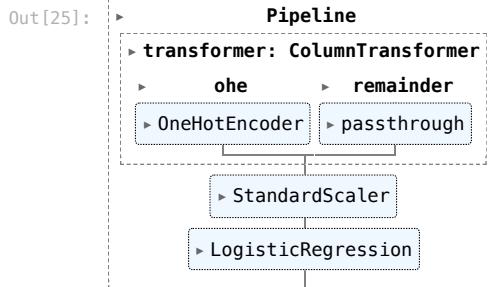
Out[24]: (0.8873458288821987, 0.8873458288821987)

Problem 8: A Simple Model

Use Logistic Regression to build a basic model on your data.

```
#Define simple pipeline
simple_pipeline = Pipeline([
    ('transformer', simple_transformer),
    ('scaler', StandardScaler()),
    ('lgr', LogisticRegression() )
])

#test pipeline
simple_pipeline.fit(X_train,y_train)
```



Problem 9: Score the Model

What is the accuracy of your model?

In [26]: `tools.evaluate_models(simple_pipeline, X_train, y_train, X_test, y_test)`

Out[26]:

Model	Train Time	Inference Time	Train Accuracy	Test Accuracy	Train Precision	Test Precision	Train Recall	Test Recall	Train f1	Test f1	Train ROC AUC	Test ROC AUC
0 Pipeline	0.115058	0.01467	0.887346	0.887346	0.787383	0.787383	0.887346	0.887346	0.834381	0.834381	0.650991	0.655391

In []:

Problem 10: Model Comparisons

Now, we aim to compare the performance of the Logistic Regression model to our KNN algorithm, Decision Tree, and SVM models. Using the default settings for each of the models, fit and score each. Also, be sure to compare the fit time of each of the models. Present your findings in a `DataFrame` similar to that below:

Model	Train Time	Train Accuracy	Test Accuracy
-------	------------	----------------	---------------

In [46]: `# Define models`
`models = {`
 `'Logistic Regression': LogisticRegression(random_state=42),`
 `'KNN': KNeighborsClassifier(),`
 `'Decision Trees': DecisionTreeClassifier(random_state=42),`
 `'SVM': SVC(probability=True, random_state=42)`
`}`

In [47]: `#Evaluate models`
`simple_results = tools.evaluate_models(models, X_train, y_train, X_test, y_test,`
 `transformer=simple_transformer, scaler=StandardScaler(), selector=None)`
`simple_results`

Out[47]:

Model	Train Time	Inference Time	Train Accuracy	Test Accuracy	Train Precision	Test Precision	Train Recall	Test Recall	Train f1	Test f1	Train ROC AUC	Test ROC AUC
0 Logistic Regression	0.164655	0.019554	0.887346	0.887346	0.787383	0.787383	0.887346	0.887346	0.834381	0.834381	0.650991	0.655391
1 KNN	0.045182	0.239664	0.891198	0.878994	0.862973	0.826457	0.891198	0.878994	0.858036	0.841304	0.787690	0.589524
2 Decision Trees	0.113637	0.010520	0.917775	0.866466	0.918043	0.819098	0.917775	0.866466	0.898328	0.837381	0.919315	0.579553
3 SVM	76.047721	7.384867	0.887670	0.887152	0.879236	0.825048	0.887670	0.887152	0.835356	0.834660	0.629428	0.552591

Comparison of 4 models

In general, we prefer Logistic Regression and Decision Trees because they are the most interpretable models and also come with probabilities which can provide levels of confidence. That said, below is my analysis for comparing these models:

- The highest accuracy score belongs to Decision Trees followed by SVM and KNN which are both overfit and finally Logistic Regression
- However, as will be discussed below in Problem 11, we would like to use ROC AUC as our performance metric
- When we look at ROC AUC the only one that is not overfit by a lot is Logistic Regression
- On top of this SVM has a very long training time
- Lastly, Logistic Regression will be easy to explain so we will continue to use that as the reference model to be. But we are not done. We will continue to cross-validate using all models.

Problem 11: Improving the Model

Now that we have some basic models on the board, we want to try to improve these. Below, we list a few things to explore in this pursuit.

- More feature engineering and exploration. For example, should we keep the gender feature? Why or why not?
- Hyperparameter tuning and grid search. All of our models have additional hyperparameters to tune and explore. For example the number of neighbors in KNN or the maximum depth of a Decision Tree.
- Adjust your performance metric

Updating our Performance Metric

We will use ROC-AUC as our primary scoring metric for the following reasons:

- It handles imbalance well. According to [this article by Machine Learning Mastery](#), "ROC analysis does not have any bias toward models that perform well on the minority class at the expense of the majority class—a property that is quite attractive when dealing with imbalanced data.". The article also states it is the most commonly used metric for imbalanced problems.
- We would be able to compare our results to the results of the study from the university of Lisbon
- ROC AUC can leverage predict_proba so we can not only predict the success rate but also select samples where the level of confidence is above a threshold
- However, secondarily we will also like to keep an eye on **Precision** because we are trying to improve the efficiency of the campaign and want to reduce making calls that will not end up in a subscription and therefore we want to **minimize the False Positives**.

Before doing feature engineering we will try to address the class imbalance using oversampling on the minority class and undersampling on the majority class **SMOTE**

- We would like to evaluate whether our model will perform better if we synthetically balance the dataset
- We will enhance our simple model and add SMOTE to it

```
In [ ]: #Define scoring metrics. Again our primary metric is ROC AUC, our secondary one is Precision and we are also
#keeping accuracy since we started looking at that in the beginning
scoring_metrics = {
    'accuracy': make_scorer(accuracy_score),
    'precision': make_scorer(precision_score, average='weighted', labels=['no', 'yes'], zero_division=0.0),
    'roc_auc': make_scorer(roc_auc_score, needs_threshold=True) #roc_auc does not expect weighted or labels for binary classifier
}

#Run pipeline with SMOTE for oversampling
simple_pipeline_with_SMOTE = ImbPipeline([
    ('transformer', simple_transformer),
    ('scaler', StandardScaler()),
    ('over', SMOTE(random_state=42)),
    #('under', RandomUnderSampler(random_state=42)),
    ('oversampled_lgr', LogisticRegression())
])

#Define parameters for oversampling
smote_params = {
    'over_sampling_strategy': [0.13, 0.135, 0.14, 0.145, 0.15, 0.2, 0.3, 0.4],
    'over_k_neighbors': np.arange(3, 502, 2)
}
```

Run Cross-Validation with various oversampling (SMOTE) percentages

The function **cv_and_holdout** below will:

- Performs Cross-Validation on the pipeline model
- Shows the best Cross-Validation in descending order of rank
- Performs Holdout Validation on each model in the RandomizedSearch
- Shows the best Holdout-Validation models by overfit status and holdout test score
 - If holdout_tolerance > 0, then it will select the best models within the tolerance
- Shows a plot of all the models and where the best non-overfit model lies

```
In [63]: #Run Cross-Validation with various oversampling settings
ho_results_SMOTE, best_ho_estimator_SMOTE = tools.cv_and_holdout(
    simple_pipeline_with_SMOTE,X, y, test_size=0.3, stratify=y, random_state=42, search_type='random',
    param_dict= smote_params,
    scoring=scoring_metrics, refit='roc_auc',
    holdout_tolerance=0, verbose=1, cv=5, n_iter=20, summary=True)
```

Fitting 5 folds for each of 20 candidates, totalling 100 fits

Results for oversampled_lgr:

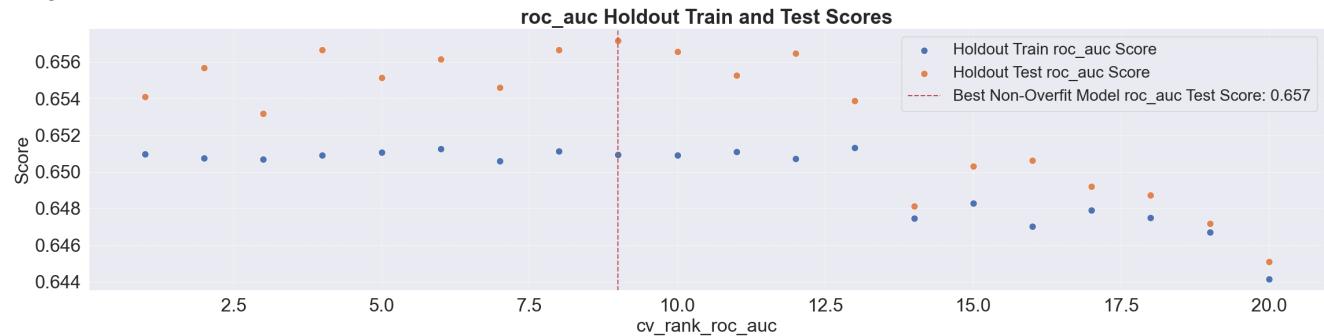
Models ranked by descending cv_rank_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_over_sampling_s
1	0.644884	No	0.650982	0.654111	0.315544	0.887205	0.787190	0
2	0.644509	No	0.650741	0.655673	0.304733	0.887205	0.787190	0
3	0.644454	No	0.650689	0.653186	0.392535	0.887205	0.787190	0
4	0.644352	No	0.650898	0.656670	0.240843	0.887205	0.787190	0

Models ranked by overfit status and descending holdout test_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_over_sampling_s
9	0.643888	No	0.650945	0.657168	0.170956	0.887205	0.78719	
4	0.644352	No	0.650898	0.656670	0.240843	0.887205	0.78719	
8	0.644094	No	0.651125	0.656669	0.303002	0.887205	0.78719	
10	0.643719	No	0.650901	0.656557	0.220458	0.887205	0.78719	

<Figure size 640x480 with 0 Axes>



Conclusion Regarding using SMOTE

- The best roc auc score to beat was for the simple Logistic Regression model: 0.6554
- Using SMOTE with the same model we achieved a roc auc score of: 0.6572 (and similar precision)
- While we do see a slightly better score with SMOTE, it is negligible and complicates the model, so we will abandon this idea.

Feature Engineering

Since this is a large dataset, we want to try figure out which features are the most important. We will try the following feature engineering techniques:

- Examine the Coefficients of our simple Logistic Regression model from Problem 8
- PartialDependencePlots
- SelectFromModel + LogisticRegression with Regularization
 - Visualization of Feature Strength
- Permutation Importance

1. Examine LogisticRegression Coefficients

```
In [64]: #Examine coefficients
lgr_coefs = simple_pipeline.named_steps.lgr.coef_
lgr_features = simple_pipeline.named_steps.transformer.get_feature_names_out()
df_lgr_coefs = pd.DataFrame(lgr_coefs, columns = lgr_features).T
df_lgr_coefs = df_lgr_coefs.sort_values(by=0, ascending=False).rename(columns={0: 'lgr coefficients'})
df_lgr_coefs
```

lgr coefficients	
ohe_default_no	0.186163
ohe_job_student	0.177324
ohe_job_retired	0.167391
remainder_age	0.143695
ohe_marital_single	0.097255
ohe_education_university.degree	0.070436
ohe_job_unemployed	0.057997
ohe_education_unknown	0.043187
ohe_job_admin.	0.039640
ohe_job_unknown	0.021237
ohe_education_illiterate	0.019865
ohe_marital_unknown	0.018440
ohe_housing_yes	0.009076
ohe_loan_no	0.004264
ohe_loan_unknown	0.004002
ohe_housing_unknown	0.004002
ohe_education_basic.4y	-0.002768
ohe_education_basic.6y	-0.003091
ohe_job_housemaid	-0.003506
ohe_loan_yes	-0.006236
ohe_education_professional.course	-0.007440
ohe_housing_no	-0.010346
ohe_job_self-employed	-0.011689
ohe_job_management	-0.021560
ohe_job_technician	-0.023619
ohe_education_high.school	-0.025968
ohe_marital_married	-0.043198
ohe_job_entrepreneur	-0.045198
ohe_default_yes	-0.059784
ohe_job_services	-0.060391
ohe_education_basic.9y	-0.074326
ohe_marital_divorced	-0.074643
ohe_job_blue-collar	-0.106189
ohe_default_unknown	-0.184747

Interpreting the coefficients

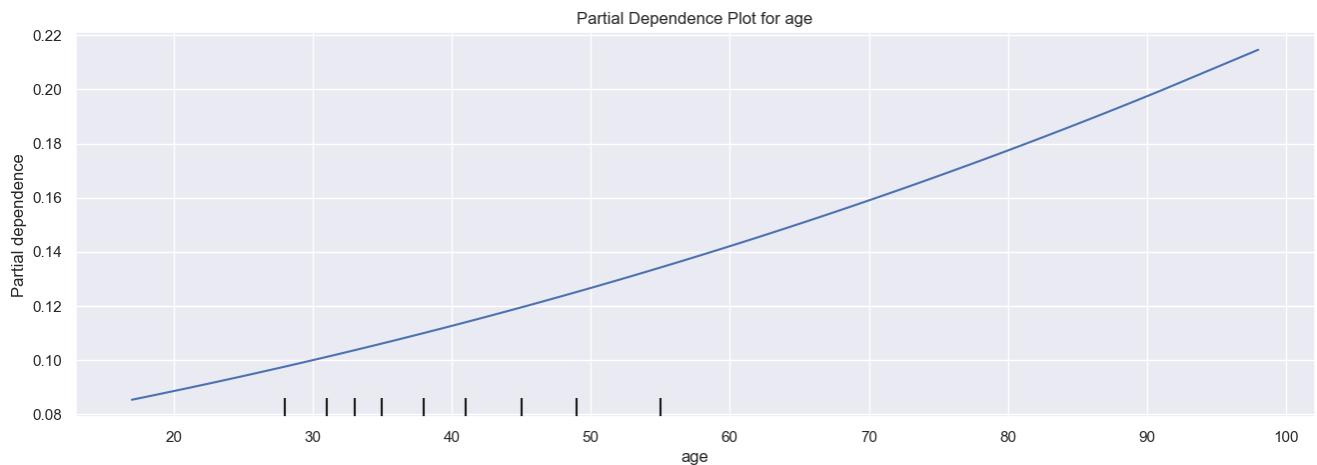
- The **housing** and **loan** coefficients are low. This confirms what we saw in the visualizations which is that the success rate stayed relatively stable for all values of these features. We will drop these two features and reevaluate the simple model.
- Based on the coefficients, the most important features are default, job and age.
- Based on the instructions and questions for this assignment I will assume that we do not need to include the other features form the dataset

2. Partial Dependence Plot

We can only see the Partial Dependence Plot for the age feature since it is the only numeric feature. The plot shows that as age increases, so does the model's likelihood of predicting a success. This also confirms what we see in the coefficients as well as in the visualizations. Therefore age is a feature we will absolutely keep.

```
In [65]: #PartialDependencePlot
fig, ax = plt.subplots(figsize = (16, 5))
PartialDependenceDisplay.from_estimator(simple_pipeline, X_train, features=['age'], ax=ax)
ax.set_title('Partial Dependence Plot for age', fontsize=12)

Out[65]: Text(0.5, 1.0, 'Partial Dependence Plot for age')
```

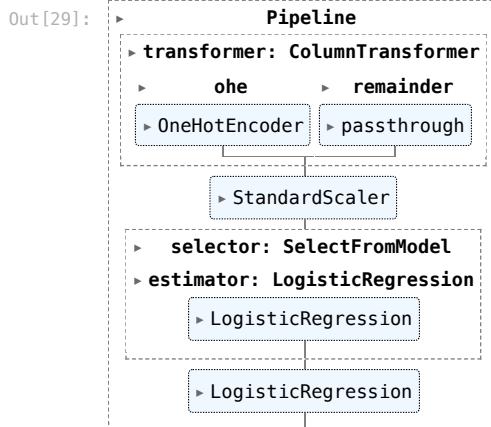


3. SelectFromModel + LogisticRegression with Regularization

Note that ideally we would have used SequentialFeatureSelector however it is extremely slow.

```
In [29]: #Define simple pipeline with standardscaler and Logistic Regression Model
simple_pipeline_with_selector = Pipeline([
    ('transformer', simple_transformer),
    ('scaler', StandardScaler()),
    #('SFS', SequentialFeatureSelector(estimator=RandomForestClassifier(), n_features_to_select='auto')),
    ('selector', SelectFromModel(LogisticRegression(penalty='l1', solver='liblinear', max_iter=1000, random_state=42))),
    ('lgr', LogisticRegression())
])

#test pipeline
simple_pipeline_with_selector.fit(X_train,y_train)
```



```
In [30]: tools.evaluate_models(simple_pipeline_with_selector, X_train, y_train, X_test, y_test)
```

	Model	Train Time	Inference Time	Train Accuracy	Test Accuracy	Train Precision	Test Precision	Train Recall	Test f1	Train f1	Train ROC AUC	Test ROC AUC	
0	Pipeline	0.699563	0.015472	0.887346	0.887346	0.787383	0.787383	0.887346	0.887346	0.834381	0.834381	0.65099	0.655391

These scores are similar to the scores from our simple model so the score is not degraded and we can look at the features that were eliminated

```
In [69]: #Create mask for remaining features
remaining_feature_mask = simple_pipeline_with_selector.named_steps.selector.get_support()

#Set remaining features
remaining_features = np.array(lgr_features)[remaining_feature_mask]
remaining_features
```

```
In [69]: array(['ohe_job_admin.', 'ohe_job_blue-collar', 'ohe_job_entrepreneur',
   'ohe_job_housemaid', 'ohe_job_management', 'ohe_job_retired',
   'ohe_job_services', 'ohe_job_student', 'ohe_job_unemployed',
   'ohe_job_unknown', 'ohe_marital_divorced', 'ohe_marital_single',
   'ohe_marital_unknown', 'ohe_education_basic.4y',
   'ohe_education_illiterate', 'ohe_education_professional.course',
   'ohe_education_university.degree', 'ohe_education_unknown',
   'ohe_default_no', 'ohe_default_unknown', 'ohe_default_yes',
   'ohe_housing_no', 'ohe_housing_unknown', 'ohe_loan_unknown',
   'ohe_loan_yes', 'remainder_age'], dtype=object)
```

Features eliminated by SelectFromModel:

Below we see the features eliminated by SelectFromModel. We do see that **ohehousing_yes** and **oheloan_no** were eliminated but this is inconclusive because **ohehousing_no** and **oheloan_yes** remain.

```
In [70]: #Features eliminated by SelectFromModel
set(lgr_features)-set(remaining_features)
```

```
Out[70]: {'ohe_education_basic.6y',
 'ohe_housing_yes',
 'ohe_job_self-employed',
 'ohe_job_technician',
 'ohe_loan_no',
 'ohe_marital_married'}
```

4. Visualize the regularization of the features to see if we can draw any other conclusions

In order to do this we must mimic the encoding of the features

```
In [71]: #Recreate encoded data
df_encoded = simple_transformer.fit_transform(X,y)
df_encoded = pd.DataFrame(df_encoded, columns = simple_transformer.get_feature_names_out())
```

```
In [72]: #Scale the data
X_enc=df_encoded
scaler = StandardScaler()
X_scaled = scaler.fit_transform(X_enc)

Cs = np.logspace(-5, .5)
coef_list = []

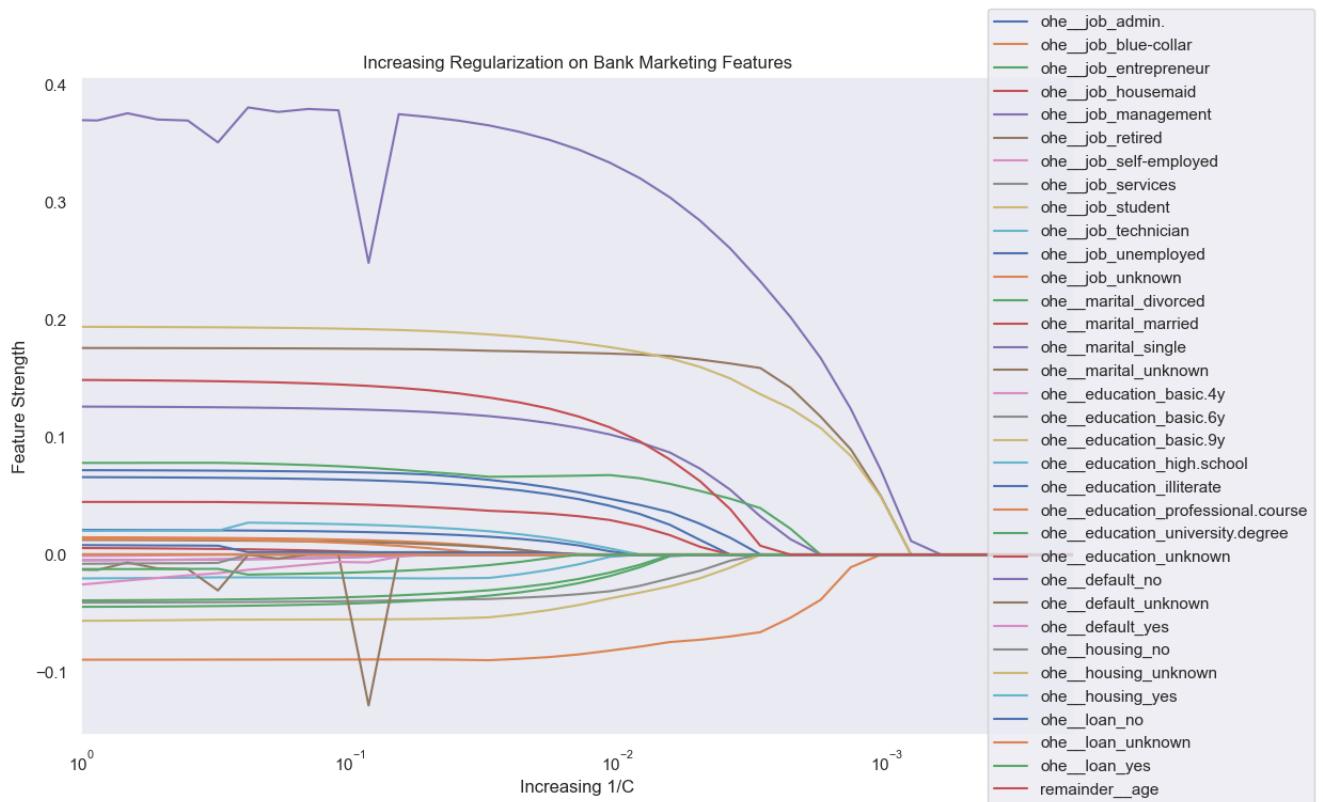
for C in Cs:
    #liblinear is for small datasets and ovr and supports l1 and l2
    logreg = LogisticRegression(penalty='l1', solver ='liblinear', C=C, random_state=42, max_iter=1000)
    logreg.fit(X_scaled,y)
    coef_list.append(list(logreg.coef_[0]))

coef_df = pd.DataFrame(coef_list, columns = X_enc.columns)
coef_df.index = Cs
coef_df.head(2)
```

	ohe_job_admin.	ohe_job_blue-collar	ohe_job_entrepreneur	ohe_job_housemaid	ohe_job_management	ohe_job_retired	ohe_job_self-employed	ohe
0.000010	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.000013	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

```
In [73]: #Visualize feature strength with increasing regularization
plt.figure(figsize = (12, 8))
plt.semilogx(coef_df)
plt.gca().invert_xaxis()
plt.grid()
plt.legend(list(coef_df.columns), loc='center right', bbox_to_anchor=(1.25,0.5))
plt.title('Increasing Regularization on Bank Marketing Features')
plt.xlabel("Increasing 1/C")
plt.ylabel("Feature Strength")
plt.xlim(1,0.0002)
```

```
Out[73]: (1, 0.0002)
```



Unfortunately the graph is too busy to be helpful!

4. Permutation Importance

Again we see with permutation importance that housing and loan are not important features and can probably be dropped

```
In [354]: #We run permutation importance
feature_names = X_train.columns
scoring=['roc_auc']

r_multi = permutation_importance(simple_pipeline_with_selector, X_test, y_test, n_repeats=30, random_state=42, scoring=scoring)
print(r_multi)
for metric in r_multi:
    print(f"{metric}:")
    r = r_multi[metric]
    for i in r.importances_mean.argsort()[::-1]:
        if r.importances_mean[i] - 2 * r.importances_std[i] > 0:
            print(f"  {feature_names[i]}: {r.importances_mean[i]:.3f} +/- {r.importances_std[i]:.3f}")
```

```

{'roc_auc': {'importances_mean': array([ 0.00980266,  0.04990579,  0.01142725,  0.01110462,  0.05723169,
   0.00075409,  0.00035337]), 'importances_std': array([ 0.00261327,  0.00540607,  0.00229874,  0.00326077,  0.00614206,
   0.00046395,  0.00023107]), 'importances': array([[ 7.07161673e-03,  9.66957011e-03,  1.27106818e-02,
    1.05707468e-02,  1.07826552e-02,  6.22266231e-03,
    1.49738370e-02,  1.48974141e-02,  8.02567620e-03,
    1.40237873e-02,  6.43032498e-03,  9.57663611e-03,
    7.94812113e-03,  7.95920716e-03,  1.11731195e-02,
    7.26814619e-03,  5.08679186e-03,  9.49011786e-03,
    4.83091673e-03,  1.10093764e-02,  9.13281731e-03,
    9.05233741e-03,  8.28527812e-03,  1.25310409e-02,
    1.07366128e-02,  1.22433229e-02,  1.10324920e-02,
    1.18278089e-02,  1.09036581e-02,  8.61309454e-03],
   [ 4.55084103e-02,  5.67957867e-02,  5.849113369e-02,
    5.25263423e-02,  5.90353545e-02,  3.83403215e-02,
    4.29713593e-02,  3.91421956e-02,  5.47624664e-02,
    4.45359055e-02,  5.39492703e-02,  5.21074317e-02,
    4.09482759e-02,  4.55832764e-02,  5.54965034e-02,
    5.56148645e-02,  4.82351032e-02,  5.26706495e-02,
    4.66608862e-02,  4.83731361e-02,  5.16222408e-02,
    5.33614746e-02,  4.68877961e-02,  4.94444245e-02,
    4.81734460e-02,  5.20433686e-02,  5.06472358e-02,
    4.58692018e-02,  5.13009816e-02,  5.60747699e-02],
   [ 1.08049216e-02,  1.23596083e-02,  1.026571158e-02,
    7.95453688e-03,  1.23923475e-02,  9.24981036e-03,
    6.62180675e-03,  1.14945674e-02,  1.24336725e-02,
    1.02359014e-02,  1.30145336e-02,  9.29806999e-03,
    1.11681662e-02,  1.37188978e-02,  1.47618342e-02,
    1.40460537e-02,  1.19635302e-02,  1.64790375e-02,
    1.34968468e-02,  8.37505142e-03,  1.33891944e-02,
    7.41792560e-03,  1.05133825e-02,  9.15253630e-03,
    1.01457507e-02,  1.02202866e-02,  1.12629872e-02,
    1.38928306e-02,  1.38001325e-02,  1.28876810e-02],
   [ 4.12457118e-03,  1.30613780e-02,  7.08756175e-03,
    1.64035581e-02,  1.18282334e-02,  8.76660075e-03,
    1.26677529e-02,  1.03223725e-02,  1.16631695e-02,
    1.36605428e-02,  1.06956652e-02,  1.00339469e-02,
    1.28967857e-02,  1.01172101e-02,  1.32737581e-02,
    3.15135882e-03,  1.23905077e-02,  1.27586584e-02,
    1.10875919e-02,  1.06988259e-02,  7.84603526e-03,
    7.14945485e-03,  1.07844478e-02,  1.14263057e-02,
    6.73002532e-03,  1.44265642e-02,  1.72123669e-02,
    1.04317704e-02,  1.51085677e-02,  1.53331188e-02],
   [ 5.13569307e-02,  6.50157280e-02,  5.27564129e-02,
    5.53328547e-02,  5.93979387e-02,  6.82087420e-02,
    5.76631864e-02,  5.02686123e-02,  6.87434663e-02,
    6.27726693e-02,  5.48346907e-02,  5.64972658e-02,
    6.18257804e-02,  5.70067516e-02,  4.99794790e-02,
    5.99425224e-02,  6.04813038e-02,  5.10467104e-02,
    6.09436622e-02,  6.75287199e-02,  5.22690991e-02,
    5.37067928e-02,  5.16259204e-02,  5.50322108e-02,
    5.96969314e-02,  6.46751273e-02,  4.74700252e-02,
    6.25822254e-02,  5.30431402e-02,  4.52457892e-02],
   [ 4.62877350e-04,  1.44293003e-03,  1.32664460e-03,
    8.26263431e-04,  -2.20918735e-04,  2.07568318e-04,
    4.75803195e-04,  6.68511509e-04,  9.44530197e-04,
    4.43488582e-04,  6.87853102e-04,  1.14610734e-03,
    8.01638280e-04,  1.22564374e-03,  8.77825288e-04,
    9.83449257e-04,  8.14658475e-04,  6.47282931e-04,
    1.37278138e-05,  -2.91539138e-05,  1.66903798e-04,
    1.787444627e-04,  1.43712756e-03,  1.54143064e-03,
    1.23875829e-03,  4.67594812e-04,  1.21125549e-03,
    1.00439479e-03,  5.77464496e-04,  1.05227702e-03],
   [ 4.01455997e-04,  2.07190921e-04,  5.32176863e-04,
    1.64639416e-04,  3.74236243e-04,  1.74404562e-04,
    3.56404237e-04,  4.74671004e-04,  5.00711393e-04,
    4.23675242e-04,  4.12258985e-04,  -1.61478717e-04,
    3.20881750e-04,  8.48765723e-04,  -1.96104886e-04,
    8.80136844e-04,  3.99474663e-04,  2.91397614e-04,
    2.68470750e-04,  6.27799814e-04,  2.86491454e-04,
    1.19587656e-04,  4.27166164e-04,  6.69360652e-04,
    2.86680152e-04,  4.82549165e-04,  2.86397105e-04,
    3.85180754e-04,  2.05445460e-04,  1.51147475e-04]]}}}

roc_auc
  default      0.057 +/- 0.006
  job          0.050 +/- 0.005
  marital     0.011 +/- 0.002
  education   0.011 +/- 0.003
  age          0.010 +/- 0.003

```

Conclusion of feature engineering: Eliminate housing and loan features

- We looked at:
 - Logistic Regression Coefficients
 - SelectFromModel + Logistic Regression + L1 Regularization
 - Permutation Importance
 - Partial Dependence Plot of the Age column

All the results were helpful but the clearest results came from the Permutation Importance Results. We will remove the **housing** and **loan** because they have minimal impact on the predictiveness of the model.

Dropping housing and loan features

Since X will now have 5 features we will use X5 and y5 to differentiate and not overwrite our previous work

```
In [31]: #Define X5 and y5 with the 5 chosen features
X5,y5=df_client.iloc[:,5], df_edits.y
```

MODELING, CROSS-VALIDATION AND HOLDOUT VALIDATION:

In this next phase, we will do different modeling sets. For each set we will call the function **run_pipelines** which does the following:

- Takes multiple pipelines and for each pipeline:
 - Performs Cross-Validation on each pipeline with a wide range of parameters
 - Shows the best Cross-Validation in descending order of rank
 - Performs Holdout Validation on each model in the RandomizedSearch
 - Shows the best Holdout-Validation models by overfit status and holdout test score
 - If holdout_tolerance > 0, then it will select the best models within the tolerance
 - We will generally work with a holdout_tolerance of 2%
 - Shows a plot of all the models and where the best non-overfit model lies
- Produces a summary DataFrame of the best holdout models from all the pipelines

Modeling Sets

Below is a breakdown of the 'modeling sets' we will attempt:

Keep Duplicates: For First 3 sets we keep duplicates on purpose. We think this makes sense for this dataset because the duplicates reflect the fact that many clients have the same profile and tells us something about the tendencies of those clients

- Set 1: Balanced Pipelines (no class_weights), 5 features, no imputing, no duplicates dropped
- Set 2: Weighted Pipelines, 5 features, no imputing, no duplicates dropped
- Set 3: Weighted Pipelines, 5 features, Simple Imputer, for all features except default, no duplicates dropped

Drop Duplicates: Just to make sure we will also run searches with dropped duplicates

- Set 4: Weighted Pipelines, 5 features, no imputing, duplicates dropped
- Set 5: Weighted Pipelines, 5 features, Simple Imputer for all features except default, duplicates dropped

Reasoning for choosing not to impute 'default' column:

The reason we try imputing all features except the default column is that we noticed that our imputer set all the values of default to 'no'. It is doubtful that this is a good imputation.

Define Transformers and Transformer params

```
In [32]: # Define new Transformer and params for new set of columns
transformer = ColumnTransformer(
    transformers=[('poly', PolynomialFeatures(include_bias=False), ['age']),
    ('ohe', OneHotEncoder(drop='if_binary', sparse_output=False), ['marital', 'default', 'job', 'education']),
    ], remainder='passthrough')

transformer_params = {'transformer__poly__degree': [1,2,3]}
```

Define selector

```
In [33]: selector = SelectFromModel(LogisticRegression(penalty='l1', solver='liblinear', max_iter=1000, random_state=42))
```

Define Scoring Metrics

```
In [34]: scoring_metrics = {
    'accuracy': make_scorer(accuracy_score),
    'precision': make_scorer(precision_score, average='weighted', labels=['no', 'yes'], zero_division=0.0),
    'roc_auc': make_scorer(roc_auc_score, needs_threshold=True) #roc_auc does not expect weighted or labels for binary classifier
}
```

Define pipelines

```
In [35]: #Define pipelines using the different models. We break up logistic regression into 3 pipelines because some solvers
#do not work well with some penalties
sel_lgr_pipe = Pipeline([
    ('transformer', transformer),
    ('scaler', StandardScaler()),
```

```

        ('selector', selector),
        ('lgr', LogisticRegression(n_jobs=-1, random_state=42))
    ])

sel_lgr_saga_l1l2_pipe = Pipeline([
    ('transformer', transformer),
    ('scaler', StandardScaler()),
    ('selector', selector),
    ('lgr_saga_l1l2', LogisticRegression(n_jobs=-1, random_state=42))
])

sel_lgr_saga_elastic_pipe = Pipeline([
    ('transformer', transformer),
    ('scaler', StandardScaler()),
    ('selector', selector),
    ('lgr_saga_elastic', LogisticRegression(n_jobs=-1, random_state=42))
])

sel_knn_pipe = Pipeline([
    ('transformer', transformer),
    ('scaler', StandardScaler()),
    ('selector', selector),
    ('knn', KNeighborsClassifier(n_jobs=-1))
])

sel_dtreetree_pipe = Pipeline([
    ('transformer', transformer),
    ('scaler', StandardScaler()),
    ('selector', selector),
    ('dtree', DecisionTreeClassifier(random_state=42))
])

sel_svc_pipe = Pipeline([
    ('transformer', transformer),
    ('scaler', StandardScaler()),
    ('selector', selector),
    ('svc', SVC(verbose=False, random_state=42))
])
)

```

Define balanced parameter dicts

Note we have 3 sets of parameters for LogisticRegression due to the fact that some solvers do not work well with some penalties. Also this helps us avoid warnings about l1_ratio not working well with l1 and l2 penalties

```

In [36]: lgr_params = {
    #dual only consider when n_samples <= n_features
    #'transformer_poly_degree': [1,2,3]
    'lgr_penalty': ['l2'],
    'lgr_C': stats.loguniform(1e-3, 1e2), #larger C stronger regularization, smaller C increases penalty --> simpler model,
    'lgr_solver': [ 'lbfgs', 'sag', 'newton-cholesky'], #liblinear not good for large datasets
    'lgr_max_iter': [1000],
    'lgr_class_weight': ['balanced'],
    'lgr_fit_intercept': [True, False],
    'lgr_multi_class': ['auto'] # ovr, multinomial
}

#lgr with saga solver and l1 l2 penalty
lgr_saga_l1l2_params = {
    'lgr_saga_l1l2_penalty': ['l1', 'l2'],
    'lgr_saga_l1l2_C': stats.loguniform(1e-3, 1e2), #larger C stronger regularization, smaller C increases penalty --> simpler model,
    'lgr_saga_l1l2_solver': [ 'saga'],
    'lgr_saga_l1l2_max_iter': [3000],
    'lgr_saga_l1l2_class_weight': ['balanced'],
    'lgr_saga_l1l2_fit_intercept': [True, False],
    'lgr_saga_l1l2_multi_class': ['auto'], # ovr, multinomial
}

#lgr with saga solver and elasticnet penalty
lgr_saga_elastic_params = {
    'lgr_saga_elastic_penalty': ['elasticnet'],
    'lgr_saga_elastic_C': stats.loguniform(1e-3, 1e2), #larger C stronger regularization, smaller C increases penalty --> simpler model,
    'lgr_saga_elastic_solver': [ 'saga'],
    'lgr_saga_elastic_max_iter': [3000],
    'lgr_saga_elastic_class_weight': ['balanced'],
    'lgr_saga_elastic_fit_intercept': [True, False],
    'lgr_saga_elastic_multi_class': ['auto'], # ovr, multinomial
    'lgr_saga_elastic_l1_ratio': [ 0.3, 0.4, 0.5, 0.6]
}

knn_params = {
    'knn_n_neighbors': randint(3, 252), #Rule of Thumb: Sqrt of N, use odd numbers
    'knn_weights': ['uniform', 'distance'], #use distance for imbalanced classes
    'knn_algorithm': ['auto', 'ball_tree', 'kd_tree', 'brute'],
    'knn_leaf_size': randint(5,100),
    'knn_p': [1,2],
    'knn_metric': ['minkowski', 'euclidean', 'manhattan'] #mahalanobis with metric_params={'VI': inv_cov_matrix}) sometimes
    #'knn_metric_params': [{V: np.cov(X_train)}],
    #'knn_metric': ['mahalanobis']
}

```

```

    }

dtree_params = {
    'dtree_criterion': ['gini', 'entropy', 'log_loss'],
    'dtree_splitter': ['best', 'random'],
    'dtree_max_depth': randint(2, 25),
    'dtree_max_features': randint(2,5), # num features to consider when looking for best split
    'dtree_min_samples_split': uniform(0.1, 0.8), # overfit at lower values
    'dtree_min_samples_leaf': uniform(0.1, 0.8), #min samples required to be a leaf node | overfit at lower values |
    'dtree_max_leaf_nodes': randint(2,70),
    'dtree_ccp_alpha': uniform(0, 0.05),
    'dtree_min_impurity_decrease': stats.loguniform(1e-3, 1e-1),
    'dtree_class_weight': ['balanced'],
}

svc_params = {
    'svc_C': stats.loguniform(1e-4, 1e3), #trade off between maximizing margin and minimizing error
    'svc_kernel': ['poly', 'rbf', 'sigmoid'], #rbf likely to perform better for imbalanced classes, removed linear
    'svc_degree': randint(1, 5), #complexity used if poly is selected
    'svc_gamma': stats.loguniform(1e-3, 1e2), # default is decent. Small Gamma: more flex dec boundaries (more complexity)
    'svc_coef0': uniform(loc=-10, scale=20), #do set this
    'svc_class_weight': ['balanced'],
    'svc_cache_size': [500],
    'svc_max_iter': [10_000],
}

```

Define class weights and params with class weights

```

In [37]: #calculate yes/no ratio
balanced_yes_weight = y5.value_counts().iloc[1]/y5.value_counts().iloc[0]

#define varying sets of weight to run through the pipelines
class_weights=[{'yes': balanced_yes_weight, 'no': 1},
               {'yes': balanced_yes_weight*1.5, 'no': 1},
               {'yes': balanced_yes_weight*2, 'no': 1},
               {'yes': balanced_yes_weight*3, 'no': 1}
]

lgr_params_w = {
    #dual only consider when n_samples <= n_features
    'lgr_penalty': ['l2'],
    'lgr_C': stats.loguniform(1e-3, 1e2), #larger C stronger regularization, smaller C increases penalty --> simpler model,
    'lgr_solver': [ 'lbfgs', 'sag', 'newton-cholesky'], #liblinear not good for large datasets
    'lgr_max_iter': [1000],
    'lgr_class_weight': class_weights,
    'lgr_fit_intercept': [True, False],
    'lgr_multi_class': ['auto'] # ovr, multinomial
}

#lgr with saga solver and l1 l2 penalty
lgr_saga_l1l2_params_w = {
    'lgr_saga_l1l2_penalty': ['l1', 'l2'],
    'lgr_saga_l1l2_C': stats.loguniform(1e-3, 1e2), #larger C stronger regularization, smaller C increases penalty --> simpl
    'lgr_saga_l1l2_solver': [ 'saga'],
    'lgr_saga_l1l2_max_iter': [5000],
    'lgr_saga_l1l2_class_weight': class_weights,
    'lgr_saga_l1l2_fit_intercept': [True, False],
    'lgr_saga_l1l2_multi_class': ['auto'], # ovr, multinomial
}

#lgr with saga solver and elasticnet penalty
lgr_saga_elastic_params_w = {
    'lgr_saga_elastic_penalty': ['elasticnet'],
    'lgr_saga_elastic_C': stats.loguniform(1e-3, 1e2), #larger C stronger regularization, smaller C increases penalty --> si
    'lgr_saga_elastic_solver': [ 'saga'],
    'lgr_saga_elastic_max_iter': [5000],
    'lgr_saga_elastic_class_weight': class_weights,
    'lgr_saga_elastic_fit_intercept': [True, False],
    'lgr_saga_elastic_multi_class': ['auto'], # ovr, multinomial
    'lgr_saga_elastic_l1_ratio': [ 0.3, 0.4, 0.5, 0.6]
}

knn_params_w = {
    'knn_n_neighbors': randint(3, 252), #Rule of Thumb: Sqrt of N, use odd numbers
    'knn_weights': ['uniform', 'distance'], #use distance for imbalanced classes
    'knn_algorithm': ['auto', 'ball_tree', 'kd_tree', 'brute'],
    'knn_leaf_size': randint(5,100),
    'knn_p': [1,2],
    'knn_metric': ['minkowski', 'euclidean', 'manhattan'] #mahalanobis with metric_params={'VI': inv_cov_matrix}) sometime
    #'knn_metric_params': [{"V': np.cov(X_train)}],
    #'knn_metric': ['mahalanobis']
}

dtree_params_w = {
    'dtree_criterion': ['gini', 'entropy', 'log_loss'],
    'dtree_splitter': ['best', 'random'],
    'dtree_max_depth': randint(2, 25),
    'dtree_max_features': randint(2,5), # num features to consider when looking for best split
    'dtree_min_samples_split': uniform(0.1, 0.8), # overfit at lower values
}
```

```
'dtree__min_samples_leaf': uniform(0.1, 0.8), #min samples required to be a leaf node | overfit at lower values |
'dtree__max_leaf_nodes': randint(2,70),
'dtree__ccp_alpha': uniform(0, 0.05),
'dtree__min_impurity_decrease': stats.loguniform(1e-3, 1e-1),
'dtree__class_weight': ['balanced'],
}

svc_params_w = {
    'svc_C': stats.loguniform(1e-4, 1e3), #trade off between maximizing margin and minimizing error
    'svc_kernel': ['poly', 'rbf', 'sigmoid'], #rbf likely to perform better for imbalanced classes, removed linear
    'svc_degree': randint(1, 5), #complexity used if poly is selected
    'svc_gamma': stats.loguniform(1e-3, 1e2), # default is decent. Small Gamma: more flex dec boundaries (more complexity)
    'svc_cof0': uniform(loc=-10, scale=20), #do set this
    'svc_class_weight': class_weights,
    'svc_cache_size': [500],
    'svc_max_iter': [10_000],
}
```

Define pairs of pipelines and parameters to be used in most modeling sets

```
In [126]: #Define pairs of pipelines that will use balanced weights
pipe_param_pairs = [(sel_lgr_pipe, transformer_params | lgr_params),
                     (sel_lgr_saga_l1l2_pipe, transformer_params | lgr_saga_l1l2_params),
                     (sel_lgr_saga_elastic_pipe, transformer_params | lgr_saga_elastic_params),
                     (sel_knn_pipe, transformer_params | knn_params),
                     (sel_dtreetrue_pipe, transformer_params | dtree_params),
                     (sel_svc_pipe, transformer_params | svc_params),
]

#Define pairs of pipelines that will use varying weights
pipe_param_pairs_weighted = [(sel_lgr_pipe, transformer_params | lgr_params_w),
                             (sel_lgr_saga_l1l2_pipe, transformer_params | lgr_saga_l1l2_params_w),
                             (sel_lgr_saga_elastic_pipe, transformer_params | lgr_saga_elastic_params_w),
                             (sel_knn_pipe, transformer_params | knn_params_w),
                             (sel_dtreetrue_pipe, transformer_params | dtree_params_w),
                             (sel_svc_pipe, transformer_params | svc_params_w),
]
```

SCORES TO BEAT:

Even though we will NOT pick our model solely based on scores, we note that the scores to beat from the simple models are:

- Test ROC AUC 0.6554
- Test Precision: 0.7873 (Secondary Metric)
- Train Time: 0.110s

SET 1: Balanced Pipelines (no class weights), 5 features, no imputing, no duplicates dropped

```
In [127]: #run pipelines for set 1
results_df_set1, models_set1 = tools.run_pipelines(pipe_param_pairs = pipe_param_pairs,
                                                    X=X5,
                                                    y=y5,
                                                    test_size=0.3,
                                                    stratify=y5,
                                                    random_state=42,
                                                    search_type='random',
                                                    scoring=scoring_metrics,
                                                    refit='roc_auc',
                                                    holdout_tolerance=0,
                                                    verbose=1,
                                                    cv=5,
                                                    n_iter=20,
                                                    summary=True)
```

Fitting 5 folds for each of 20 candidates, totalling 100 fits

Results for lgr:

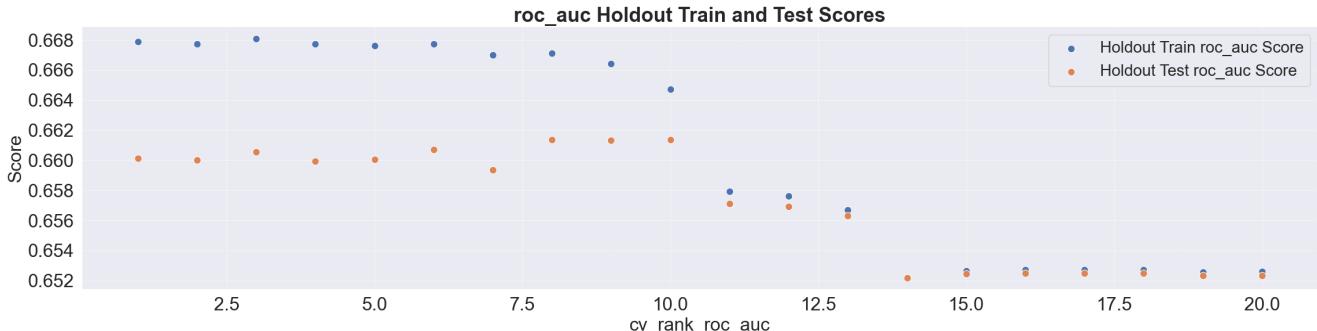
Models ranked by descending cv_rank_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_lgr__C	param_lg
1	0.661763	Yes	0.667884	0.660122	1.073032	0.620082	0.839889	7.915074	
2	0.661760	Yes	0.667728	0.660013	1.111617	0.526989	0.843037	1.012920	
3	0.661759	Yes	0.668081	0.660537	20.480012	0.611068	0.839986	0.074593	
4	0.661746	Yes	0.667730	0.659930	3.809076	0.527322	0.842919	70.456836	

Models ranked by overfit status and descending holdout test_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_lgr__C	param_lg
10	0.657849	Yes	0.664728	0.661370	19.993211	0.514152	0.845869	0.002838	
8	0.660355	Yes	0.667105	0.661364	1.030680	0.603518	0.839717	0.028585	
9	0.659334	Yes	0.666430	0.661324	2.446987	0.514052	0.845667	0.019674	
6	0.661563	Yes	0.667730	0.660719	1.120761	0.520737	0.844046	0.084544	

No non-overfit models were found. Consider re-running the function with a `houldout_threshold > 0`
`<Figure size 640x480 with 0 Axes>`



Fitting 5 folds for each of 20 candidates, totalling 100 fits

Results for lgr_saga_l1l2:

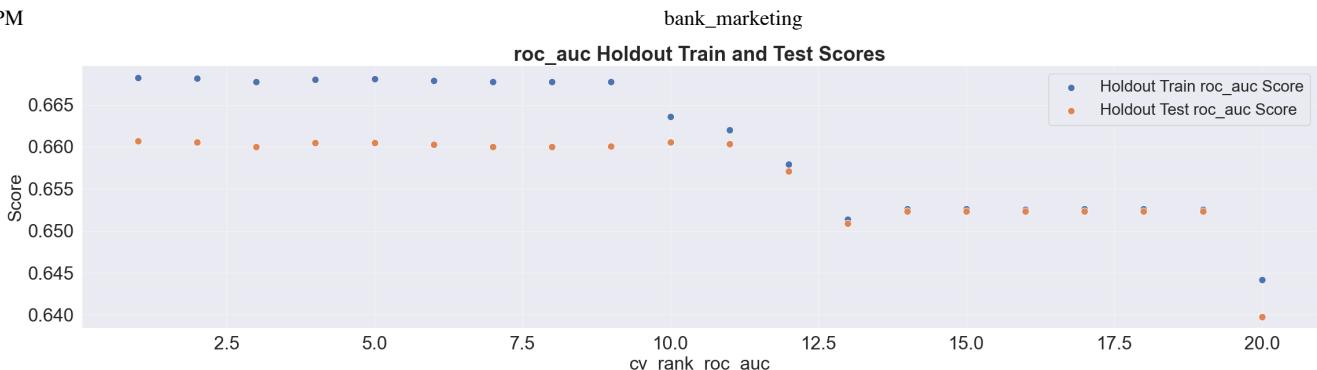
Models ranked by descending cv_rank roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_lgr_saga_l1l2_C
1	0.662065	Yes	0.668225	0.660663	23.327606	0.610104	0.840228	0.074593
2	0.661981	Yes	0.668119	0.660564	60.403704	0.612565	0.840270	0.144453
3	0.661860	Yes	0.667709	0.660024	53.967965	0.525892	0.842866	2.608060
4	0.661846	Yes	0.668021	0.660478	38.142749	0.524262	0.843858	0.099840

Models ranked by overfit status and descending holdout test_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_lgr_saga_l1l2_C
1	0.662065	Yes	0.668225	0.660663	23.327606	0.610104	0.840228	0.074593
2	0.661981	Yes	0.668119	0.660564	60.403704	0.612565	0.840270	0.144453
10	0.656488	Yes	0.663611	0.660537	3.281884	0.602620	0.839081	0.007359
4	0.661846	Yes	0.668021	0.660478	38.142749	0.524262	0.843858	0.09984

No non-overfit models were found. Consider re-running the function with a `houldout_threshold > 0`
`<Figure size 640x480 with 0 Axes>`



Fitting 5 folds for each of 20 candidates, totalling 100 fits

Results for lgr_saga_elastic:

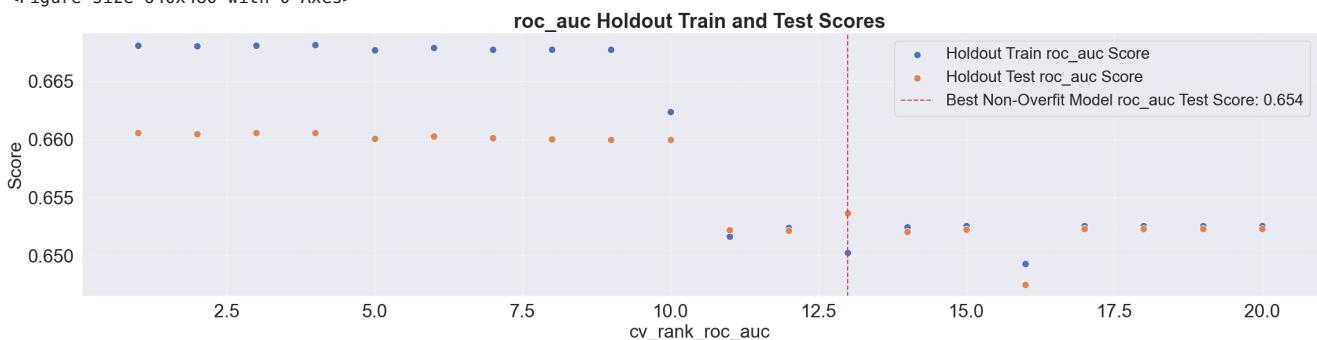
Models ranked by descending cv_rank_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_lgr_saga_elastic_
1	0.662101	Yes	0.668077	0.660556	35.485940	0.522566	0.844167	0.0998
2	0.661892	Yes	0.668049	0.660476	52.297759	0.614095	0.839928	0.1907
3	0.661878	Yes	0.668089	0.660557	49.088130	0.612798	0.840211	0.1444
4	0.661875	Yes	0.668145	0.660603	32.009954	0.610303	0.840107	0.0745

Models ranked by overfit status and descending holdout test roc auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_lgr_saga_elastic_
13	0.646782	No	0.650284	0.653682	21.010838	0.456347	0.845139	0.0012
11	0.648316	No	0.651683	0.652227	1.568866	0.468487	0.844435	0.0019
4	0.661875	Yes	0.668145	0.660603	32.009954	0.610303	0.840107	0.0745
3	0.661878	Yes	0.668089	0.660557	49.088130	0.612798	0.840211	0.1444

<Figure size 640x480 with 0 Axes>



Fitting 5 folds for each of 20 candidates, totalling 100 fits

Results for knn:

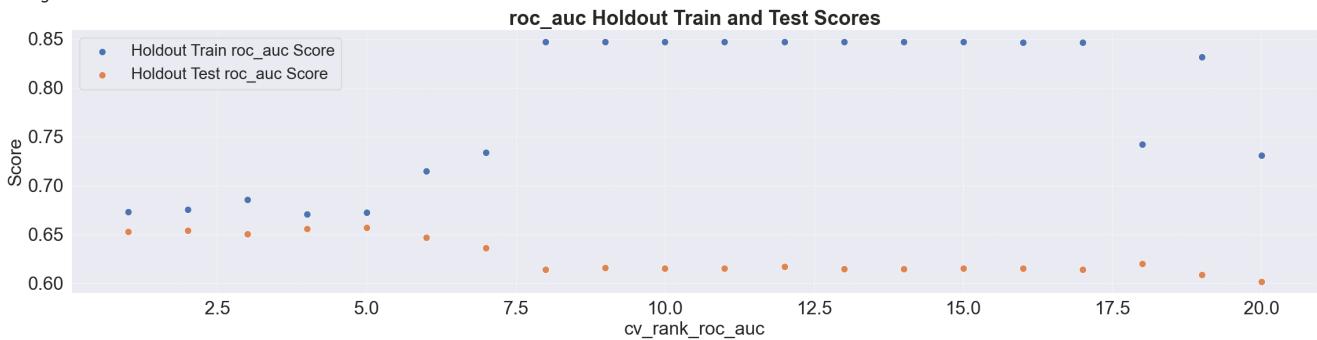
Models ranked by descending cv_rank_roc_auc

	cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_knn_algorithm
1	0.651725	Yes		0.673087	0.653146	2.566944	0.887584	0.787806	auto
2	0.650477	Yes		0.675425	0.654275	0.915942	0.887584	0.787806	brute
3	0.650317	Yes		0.685388	0.650469	20.486747	0.887618	0.810313	kd_tree
4	0.646473	Yes		0.670938	0.656096	1.291036	0.887584	0.787806	kd_tree

Models ranked by overfit status and descending holdout test_roc_auc

	cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_knn_algorithm
5	0.645629	Yes		0.672715	0.657073	1.302407	0.887584	0.787806	kd_tree
4	0.646473	Yes		0.670938	0.656096	1.291036	0.887584	0.787806	kd_tree
2	0.650477	Yes		0.675425	0.654275	0.915942	0.887584	0.787806	brute
1	0.651725	Yes		0.673087	0.653146	2.566944	0.887584	0.787806	auto

No non-overfit models were found. Consider re-running the function with a holdout_threshold > 0
<Figure size 640x480 with 0 Axes>



Fitting 5 folds for each of 20 candidates, totalling 100 fits

Results for dtree:

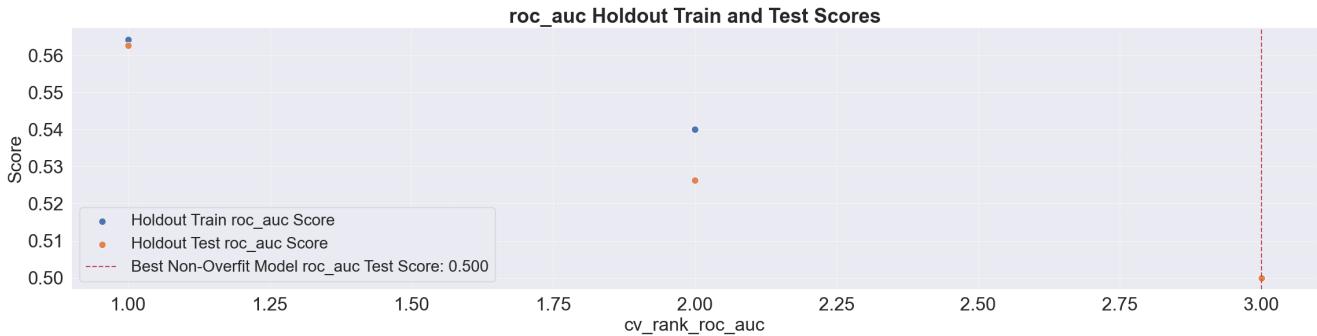
Models ranked by descending cv_rank_roc_auc

	cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_dtreet_ccp_alpha
1	0.550363	Yes		0.564226	0.562726	1.200333	0.261447	0.687236	0.015044
2	0.540085	Yes		0.540085	0.526278	21.486174	0.674360	0.813565	0.000663
3	0.500000	No		0.500000	0.500000	1.360314	0.112416	0.012637	0.018727
3	0.500000	No		0.500000	0.500000	1.240911	0.112416	0.012637	0.030056

Models ranked by overfit status and descending holdout test_roc_auc

	cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_dtreet_ccp_alpha
3	0.5	No		0.5	0.5	1.360314	0.112416	0.012637	0.018727
3	0.5	No		0.5	0.5	1.240911	0.112416	0.012637	0.030056
3	0.5	No		0.5	0.5	22.077807	0.112416	0.012637	0.030874
3	0.5	No		0.5	0.5	22.129654	0.112416	0.012637	0.022803

<Figure size 640x480 with 0 Axes>



Fitting 5 folds for each of 20 candidates, totalling 100 fits

Results for svc:

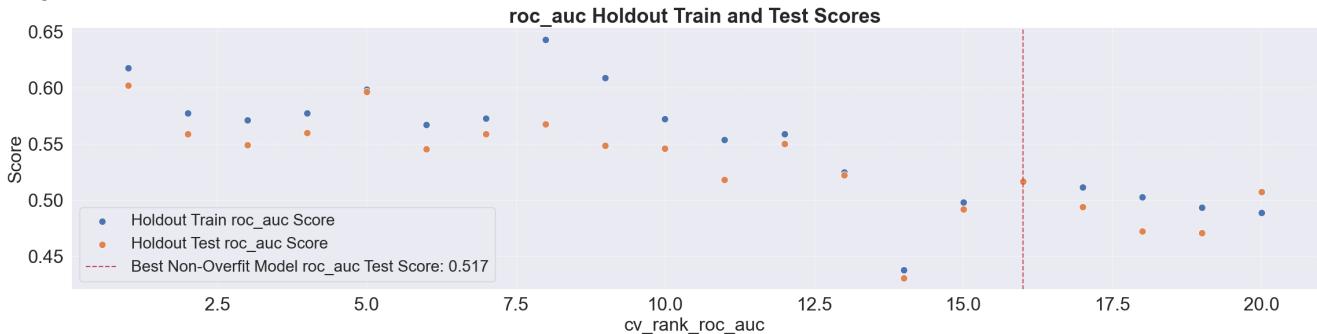
Models ranked by descending cv_rank_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_svc__C	param_s
1	0.615851	Yes	0.617567	0.602112	14.438327	0.112416	0.012637	0.094644	
2	0.592901	Yes	0.577395	0.558706	11.638774	0.112416	0.012637	0.000597	
3	0.591373	Yes	0.571425	0.548988	35.933016	0.115442	0.633184	45.580747	
4	0.586825	Yes	0.577517	0.559987	12.400458	0.112416	0.012637	0.000248	

Models ranked by overfit status and descending holdout test_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_svc_C	param_s
16	0.505655	No	0.516418	0.516664	17.550135	0.445371	0.796574	0.132078	
20	0.459048	No	0.488936	0.507567	22.878505	0.577648	0.688988	31.34958	
1	0.615851	Yes	0.617567	0.602112	14.438327	0.112416	0.012637	0.094644	
5	0.583427	Yes	0.598364	0.596769	33.255109	0.112416	0.012637	0.849064	

<Figure size 640x480 with 0 Axes>



Best Models From Each Grid/Random Search:

model	train roc_auc score	test roc_auc score	mean fit time	mean_test_accuracy	mean_test_precision
lgr	0.664728	0.661370	19.993211	0.514152	0.845869
lgr_saga_l1l2	0.668225	0.660663	23.327606	0.610104	0.840228
lgr_saga_elastic	0.650284	0.653682	21.010838	0.456347	0.845139
knn	0.672715	0.657073	1.302407	0.887584	0.787806
dtree	0.500000	0.500000	1.360314	0.112416	0.012637
svc	0.516418	0.516664	17.550135	0.445371	0.796574

SET 1 RESULTS/ANALYSIS:

- With just 5 features, we are able to achieve similar scores as the simple model but our secondary metric (Precision is much improved!)

- The best non-overfit model came from lgr saga with elasticnet:
 - Test ROC AUC: 0.6653
 - Precision: 0.8451
 - Mean Fit Time: 21.01s

SET 2: Weighted Pipelines, 5 features, no imputing, no duplicates dropped

In [132..]

```
#run pipelines for set 2
results_df_set2, models_set2 = tools.run_pipelines(pipe_param_pairs = pipe_param_pairs_weighted,
X=X5,
y=y5,
test_size=0.3,
stratify=y5,
random_state=42,
search_type='random',
scoring=scoring_metrics,
refit='roc_auc',
holdout_tolerance=0,
verbose=1,
cv=5,
n_iter=20,
summary=True)
```

Fitting 5 folds for each of 20 candidates, totalling 100 fits

Results for lgr:

Models ranked by descending cv_rank_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_lgr_C	param_lg
1	0.661198	Yes	0.666968	0.663017	20.358876	0.887551	0.817871	2.608060	0.380868
2	0.660606	Yes	0.666906	0.663290	0.939396	0.887584	0.821621	29.794545	0.190454
3	0.660450	Yes	0.666916	0.663503	22.835337	0.887451	0.824721	0.420516	0.380868
4	0.660169	Yes	0.666557	0.663601	20.388680	0.887551	0.810355	0.964386	0.190454

Models ranked by overfit status and descending holdout test_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_lgr_C	param_lg
14	0.645811	No	0.652331	0.656672	1.488931	0.563874	0.838321	0.001915	0.380868
10	0.647188	No	0.652934	0.656664	2.218113	0.887584	0.787806	0.002115	0.380868
11	0.646861	No	0.651978	0.655809	1.052428	0.887584	0.787806	0.001009	0.380868
16	0.644731	No	0.651110	0.654283	1.221890	0.887584	0.787806	0.074593	0.126956

<Figure size 640x480 with 0 Axes>



Fitting 5 folds for each of 20 candidates, totalling 100 fits

Results for lgr_saga_l1l2:

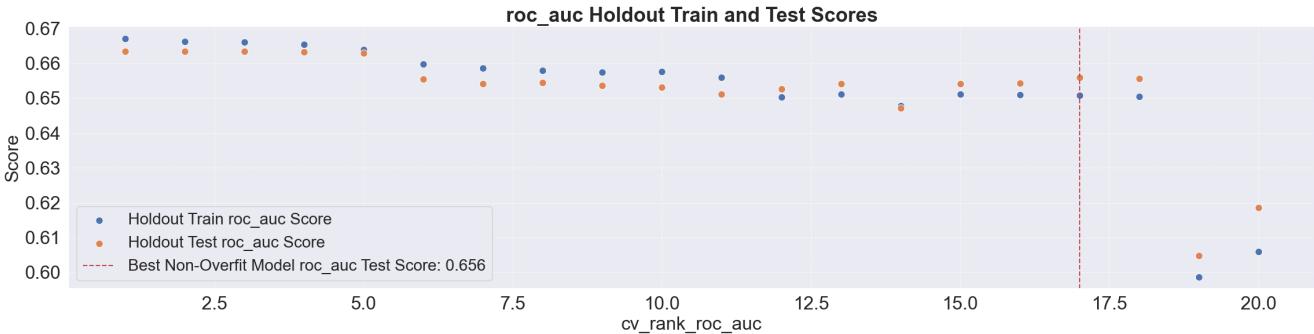
Models ranked by descending cv_rank_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_lgr_saga_l1l2_C
1	0.660847	Yes	0.667118	0.663463	12.874589	0.887518	0.847258	1.121975
2	0.659922	Yes	0.666278	0.663487	65.807931	0.887584	0.821621	0.964386
3	0.659595	Yes	0.666154	0.663385	65.090244	0.887551	0.787803	82.443122
4	0.658614	Yes	0.665374	0.663310	20.899291	0.887518	0.819412	0.042330

Models ranked by overfit status and descending holdout test_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_lgr_saga_l1l2_C
17	0.644560	No	0.650890	0.655896	1.511839	0.564206	0.838226	0.001434
18	0.644301	No	0.650553	0.655662	1.684659	0.564040	0.838306	0.001267
16	0.644599	No	0.651001	0.654259	6.171303	0.887584	0.787806	2.520796
15	0.644678	No	0.651122	0.654199	6.121133	0.887584	0.787806	13.921549

<Figure size 640x480 with 0 Axes>



Fitting 5 folds for each of 20 candidates, totalling 100 fits

Results for lgr_saga_elastic:

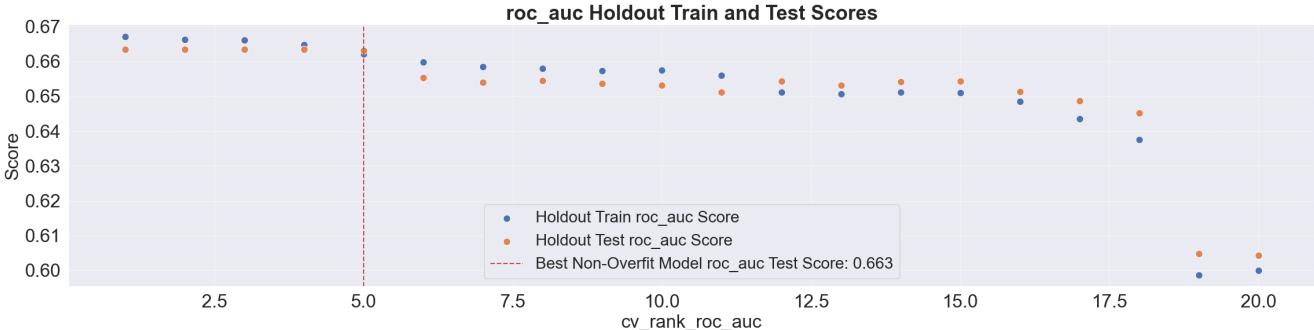
Models ranked by descending cv_rank_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_lgr_saga_elastic_
1	0.660772	Yes	0.667103	0.663437	12.927896	0.887518	0.847258	1.1219
2	0.659854	Yes	0.666312	0.663450	68.716041	0.887584	0.821621	0.9643
3	0.659594	Yes	0.666154	0.663383	65.650530	0.887551	0.787803	82.4431
4	0.659258	Yes	0.664760	0.663369	21.288286	0.887584	0.821644	0.0423

Models ranked by overfit status and descending holdout test_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_lgr_saga_elastic_
5	0.656393	No	0.662118	0.663104	23.392615	0.887584	0.787806	0.0285
12	0.646847	No	0.651164	0.654329	3.638711	0.887584	0.787806	0.0745
15	0.644646	No	0.651020	0.654231	6.437591	0.887584	0.787806	2.5207
14	0.644685	No	0.651132	0.654199	5.988551	0.887584	0.787806	13.9215

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Fitting 5 folds for each of 20 candidates, totalling 100 fits

Results for knn:

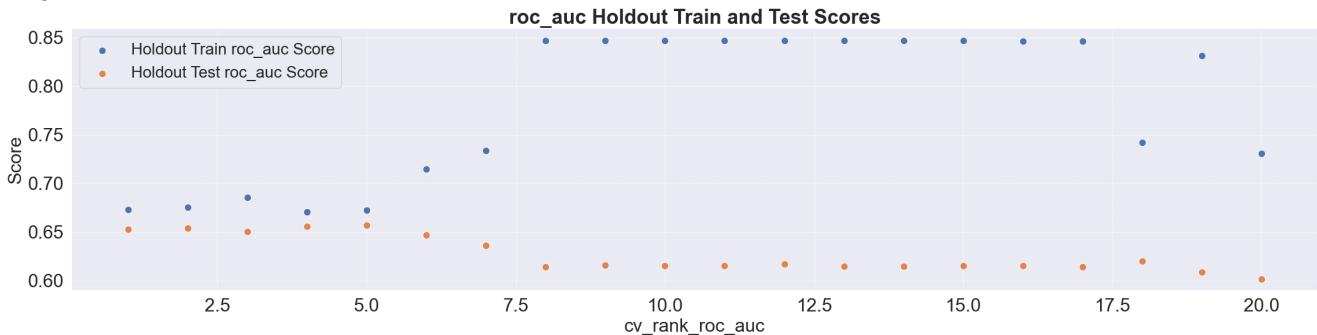
Models ranked by descending cv_rank_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_knn_algorithm
1	0.651725	Yes	0.673087	0.653146	2.713511	0.887584	0.787806	auto
2	0.650477	Yes	0.675425	0.654275	0.923963	0.887584	0.787806	brute
3	0.650317	Yes	0.685388	0.650469	21.308600	0.887618	0.810313	kd_tree
4	0.646473	Yes	0.670938	0.656096	1.307989	0.887584	0.787806	kd_tree

Models ranked by overfit status and descending holdout test_roc_auc

	cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_knn_algorithm
	5	0.645629	Yes	0.672715	0.657073	1.912423	0.887584	0.787806	kd_tree
	4	0.646473	Yes	0.670938	0.656096	1.307989	0.887584	0.787806	kd_tree
	2	0.650477	Yes	0.675425	0.654275	0.923963	0.887584	0.787806	brute
	1	0.651725	Yes	0.673087	0.653146	2.713511	0.887584	0.787806	auto

No non-overfit models were found. Consider re-running the function with a holdout_threshold > 0
<Figure size 640x480 with 0 Axes>



Fitting 5 folds for each of 20 candidates, totalling 100 fits

Results for dtree:

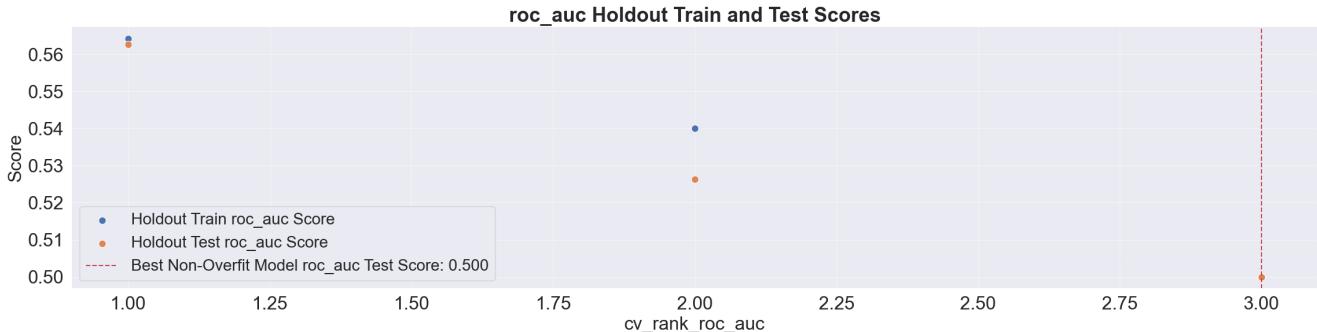
Models ranked by descending cv_rank_roc_auc

	cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_dtreet_ccp_alpha
	1	0.550363	Yes	0.564226	0.562726	1.079779	0.261447	0.687236	0.015044
	2	0.540085	Yes	0.540085	0.526278	21.081599	0.674360	0.813565	0.000663
	3	0.500000	No	0.500000	0.500000	1.170062	0.112416	0.012637	0.018727
	3	0.500000	No	0.500000	0.500000	1.140552	0.112416	0.012637	0.030056

Models ranked by overfit status and descending holdout test_roc_auc

	cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_dtreet_ccp_alpha
	3	0.5	No	0.5	0.5	1.170062	0.112416	0.012637	0.018727
	3	0.5	No	0.5	0.5	1.140552	0.112416	0.012637	0.030056
	3	0.5	No	0.5	0.5	20.078376	0.112416	0.012637	0.030874
	3	0.5	No	0.5	0.5	20.503147	0.112416	0.012637	0.022803

<Figure size 640x480 with 0 Axes>



Fitting 5 folds for each of 20 candidates, totalling 100 fits

Results for svc:

Models ranked by descending cv_rank_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_svc__C	param_s
1	0.631050	No	0.643583	0.651736	24.007791	0.887584	0.787806	0.002499	
2	0.615947	Yes	0.615285	0.603928	23.892684	0.887584	0.787806	0.001435	
3	0.601707	Yes	0.601522	0.597747	4.686114	0.887584	0.787806	0.000947	
4	0.566785	Yes	0.565644	0.546441	22.200808	0.887584	0.787806	0.013480	

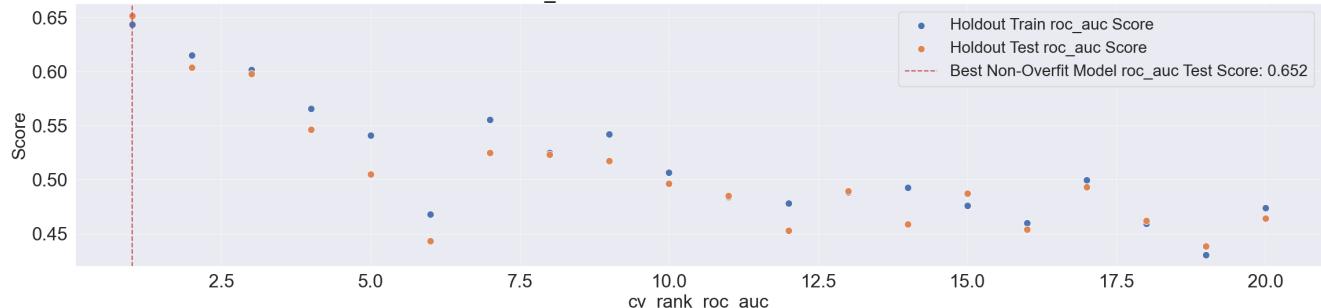
Models ranked by overfit status and descending holdout test roc auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_svc__C	param_s
1	0.631050	No	0.643583	0.651736	24.007791	0.887584	0.787806	0.002499	
13	0.485156	No	0.488180	0.489273	4.363157	0.887584	0.787806	0.002582	
15	0.482294	No	0.476067	0.487153	6.806484	0.887584	0.787806	0.001236	
11	0.497651	No	0.484232	0.485120	25.980336	0.887584	0.787806	0.058351	

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bank_marketing

roc_auc Holdout Train and Test Scores



Best Models From Each Grid/Random Search:

model	train roc_auc score	test roc_auc score	mean fit time	mean_test_accuracy	mean_test_precision
lgr	0.652331	0.656672	1.488931	0.563874	0.838321
lgr_saga_l1l2	0.650890	0.655896	1.511839	0.564206	0.838226
lgr_saga_elastic	0.662118	0.663104	23.392615	0.887584	0.787806
knn	0.672715	0.657073	1.912423	0.887584	0.787806
dtree	0.500000	0.500000	1.170062	0.112416	0.012637
svc	0.643583	0.651736	24.007791	0.887584	0.787806

SET 2 RESULTS/ANALYSIS:

lgr saga with elasticnet penalty performed the best according to our primary metric ROC AUC but since we are also keeping an eye on precision, we select regular lgr:

- Test ROC AUC: 0.6567 (Non-Overfit)
- CV Test Precision: 0.8383
- Mean Fit Time: 1.48s

SET 3: Weighted Pipelines, 5 features, Simple Imputer, no duplicates dropped

- We will do this with the weighted params/pipeline version since those performed better than the balanced version
- Below we see the proportion of unknowns by column

```
In [130]: #Percent of unknowns by feature
(X5=='unknown').sum()/len(X5)
```

```
Out[130]: age      0.000000
job       0.008012
marital   0.001942
education 0.042027
default   0.208726
dtype: float64
```

```
In [134]: #Define transformer_SI which will use SimpleImputer
categorical_transformer_SI = Pipeline([
    ('imputer', SimpleImputer(strategy = 'most_frequent', missing_values='unknown')),
    ('ohe', OneHotEncoder(drop='if_binary', sparse_output=False))
])

numerical_transformer = PolynomialFeatures(include_bias=False)

transformer_SI = ColumnTransformer([
    ('poly', numerical_transformer, ['age']),
    ('ohe_only', OneHotEncoder(drop='if_binary', sparse_output=False), ['default']),
    ('cat', categorical_transformer_SI, ['marital', 'job', 'education']),
])

```

```
#Test Transformer with Simple Imputer
transformer_SI.fit_transform(X5,y5)

Out[134]: array([[5.600e+01, 3.136e+03, 1.000e+00, ..., 0.000e+00, 0.000e+00,
       0.000e+00],
       [5.700e+01, 3.249e+03, 0.000e+00, ..., 0.000e+00, 0.000e+00,
       0.000e+00],
       [3.700e+01, 1.369e+03, 1.000e+00, ..., 0.000e+00, 0.000e+00,
       0.000e+00],
       ...,
       [5.600e+01, 3.136e+03, 1.000e+00, ..., 0.000e+00, 0.000e+00,
       1.000e+00],
       [4.400e+01, 1.936e+03, 1.000e+00, ..., 0.000e+00, 1.000e+00,
       0.000e+00],
       [7.400e+01, 5.476e+03, 1.000e+00, ..., 0.000e+00, 1.000e+00,
       0.000e+00]])
```

```
In [135]: #Define pipelines to work with transformer_SI which will use SimpleImputer
selector = SelectFromModel(LogisticRegression(penalty='l1', solver='liblinear', max_iter=1000, random_state=42))

SI_sel_lgr_pipe = Pipeline([
    ('transformer', transformer_SI),
    ('scaler', StandardScaler()),
    ('selector', selector),
    ('lgr', LogisticRegression(n_jobs=-1, random_state=42))
])

SI_sel_lgr_saga_l1l2_pipe = Pipeline([
    ('transformer', transformer_SI),
    ('scaler', StandardScaler()),
    ('selector', selector),
    ('lgr_saga_l1l2', LogisticRegression(n_jobs=-1, random_state=42))
])

SI_sel_lgr_saga_elastic_pipe = Pipeline([
    ('transformer', transformer_SI),
    ('scaler', StandardScaler()),
    ('selector', selector),
    ('lgr_saga_elastic', LogisticRegression(n_jobs=-1, random_state=42))
])

SI_sel_knn_pipe = Pipeline([
    ('transformer', transformer_SI),
    ('scaler', StandardScaler()),
    ('selector', selector),
    ('knn', KNeighborsClassifier(n_jobs=-1))
])

SI_sel_dtree_pipe = Pipeline([
    ('transformer', transformer_SI),
    ('scaler', StandardScaler()),
    ('selector', selector),
    ('dtree', DecisionTreeClassifier(random_state=42))
])

SI_sel_svc_pipe = Pipeline([
    ('transformer', transformer_SI),
    ('scaler', StandardScaler()),
    ('selector', selector),
    ('svc', SVC(verbose=False, random_state=42))
])

SI_pipe_param_pairs = [
    (SI_sel_knn_pipe, transformer_params | knn_params_w),
    (SI_sel_lgr_pipe, transformer_params | lgr_params_w),
    (SI_sel_lgr_saga_l1l2_pipe, transformer_params | lgr_saga_l1l2_params_w),
    (SI_sel_lgr_saga_elastic_pipe, transformer_params | lgr_saga_elastic_params_w),
    (SI_sel_dtree_pipe, transformer_params | dtree_params_w),
    (SI_sel_svc_pipe, transformer_params | svc_params_w),
]
]
```

```
In [136]: #run pipelines for set 3
results_df_set3, models_set3 = tools.run_pipelines(pipe_param_pairs = SI_pipe_param_pairs,
    X=X5,
    y=y5,
    test_size=0.3,
    stratify=y5,
    random_state=42,
    search_type='random',
    scoring=scoring_metrics,
    refit='roc_auc',
    holdout_tolerance=0,
    verbose=1,
    cv=5,
    n_iter=20,
    summary=True)
```

Fitting 5 folds for each of 20 candidates, totalling 100 fits

Results for knn:

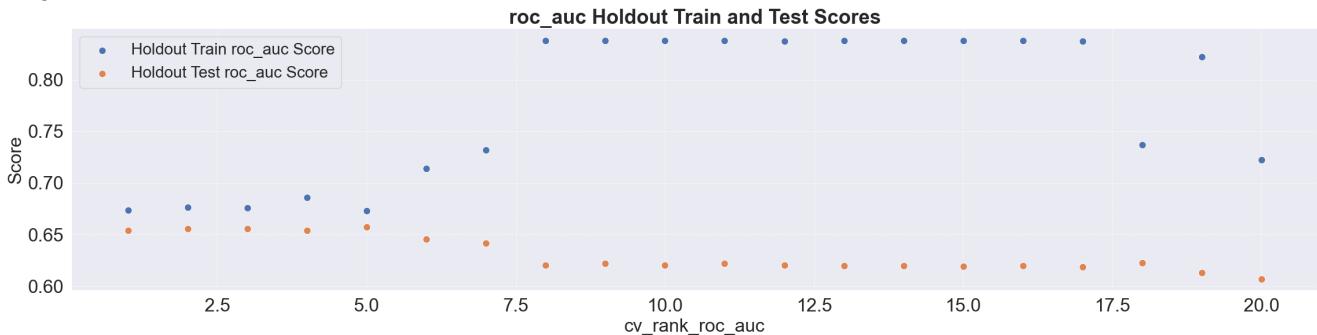
Models ranked by descending cv_rank_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_knn_algorithm
1	0.651978	Yes	0.673512	0.653894	2.328228	0.887584	0.787806	auto
2	0.650840	Yes	0.676377	0.655535	1.179548	0.887584	0.787806	brute
3	0.647851	Yes	0.675851	0.655601	1.347818	0.887584	0.787806	kd_tree
4	0.647758	Yes	0.686209	0.654118	19.454013	0.887684	0.855331	kd_tree

Models ranked by overfit status and descending holdout test_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_knn_algorithm
5	0.647498	Yes	0.673319	0.657396	1.735170	0.887584	0.787806	kd_tree
3	0.647851	Yes	0.675851	0.655601	1.347818	0.887584	0.787806	kd_tree
2	0.650840	Yes	0.676377	0.655535	1.179548	0.887584	0.787806	brute
4	0.647758	Yes	0.686209	0.654118	19.454013	0.887684	0.855331	kd_tree

No non-overfit models were found. Consider re-running the function with a holdout_threshold > 0
<Figure size 640x480 with 0 Axes>



Fitting 5 folds for each of 20 candidates, totalling 100 fits

Results for lgr:

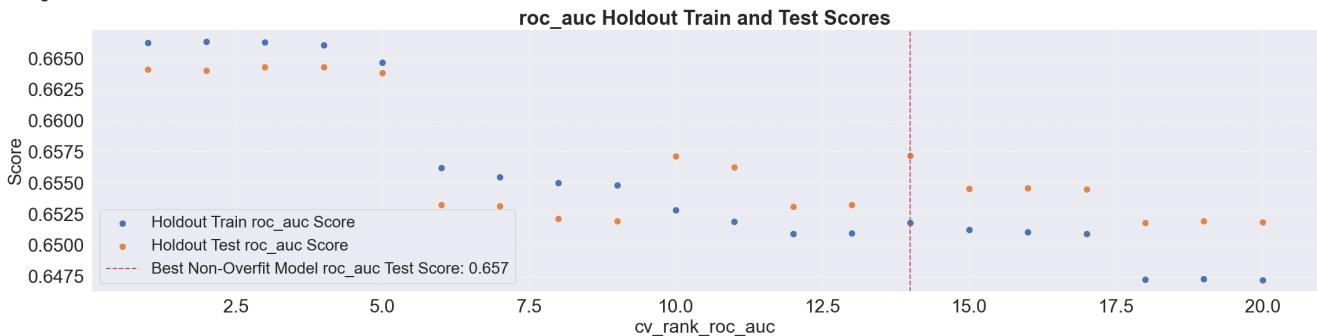
Models ranked by descending cv_rank_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_lgr_C	param_lg
1	0.661087	Yes	0.666233	0.664132	17.173365	0.887551	0.817871	2.608060	0.380868
2	0.660835	Yes	0.666352	0.664024	1.340193	0.887584	0.821621	29.794545	0.190444
3	0.660522	Yes	0.666316	0.664298	18.311206	0.887451	0.824721	0.420516	0.380868
4	0.660353	Yes	0.666066	0.664303	18.106035	0.887551	0.810355	0.964386	0.190444

Models ranked by overfit status and descending holdout test_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_lgr_C	param_lg
14	0.645782	No	0.651818	0.657200	1.585244	0.560947	0.838054	0.001915	0.380868
10	0.647215	No	0.652830	0.657157	1.731082	0.887584	0.787806	0.002115	0.380868
11	0.646826	No	0.651897	0.656243	1.368549	0.887584	0.787806	0.001009	0.380868
16	0.645354	No	0.651039	0.654591	0.875906	0.887584	0.787806	0.074593	0.126956

<Figure size 640x480 with 0 Axes>



Fitting 5 folds for each of 20 candidates, totalling 100 fits

Results for lgr_saga_l1l2:

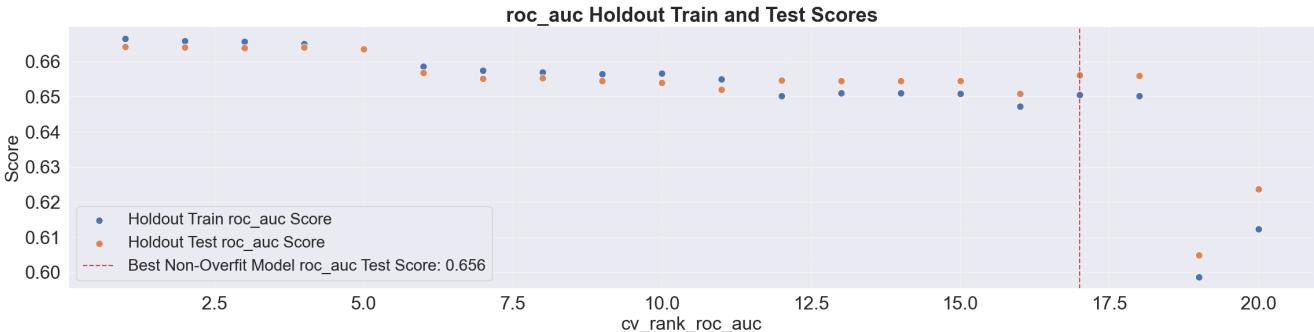
Models ranked by descending cv_rank_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_lgr_saga_l1l2_C
1	0.660898	Yes	0.666546	0.664295	12.758302	0.887518	0.847258	1.121975
2	0.660173	Yes	0.665826	0.664117	58.001113	0.887584	0.821621	0.964386
3	0.659927	Yes	0.665703	0.663896	59.003359	0.887551	0.787803	82.443122
4	0.658701	Yes	0.664996	0.664019	18.908756	0.887518	0.819412	0.042330

Models ranked by overfit status and descending holdout test_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_lgr_saga_l1l2_C
17	0.644580	No	0.650543	0.656226	1.705905	0.563042	0.837821	0.001434
18	0.644326	No	0.650260	0.656024	1.586500	0.562011	0.837975	0.001267
12	0.646907	No	0.650153	0.654609	2.877011	0.887584	0.787806	0.074593
13	0.645464	No	0.651100	0.654582	2.359603	0.887584	0.787806	0.033206

<Figure size 640x480 with 0 Axes>



Fitting 5 folds for each of 20 candidates, totalling 100 fits

Results for lgr_saga_elastic:

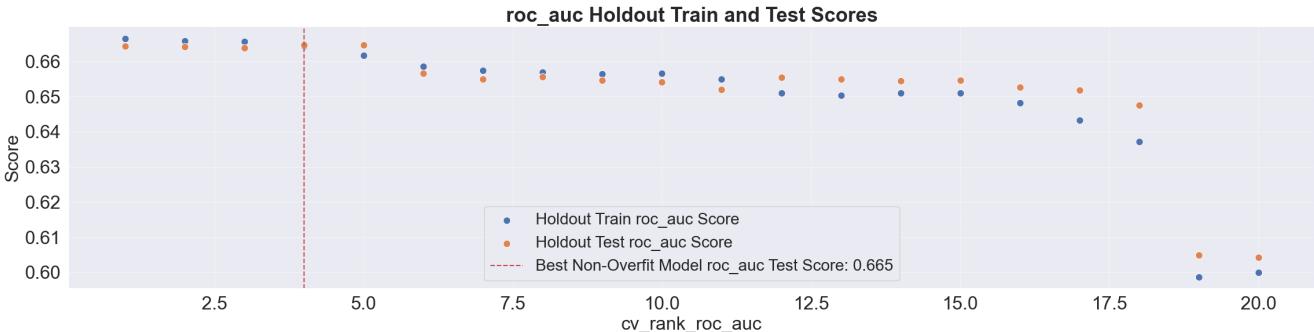
Models ranked by descending cv_rank_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_lgr_saga_elastic_
1	0.660800	Yes	0.666504	0.664325	11.597012	0.887451	0.815681	1.1219
2	0.660126	Yes	0.665867	0.664113	57.045317	0.887584	0.821621	0.9643
3	0.659929	Yes	0.665699	0.663892	56.536185	0.887551	0.787803	82.4431
4	0.659249	No	0.664408	0.664616	19.141769	0.887584	0.821644	0.0423

Models ranked by overfit status and descending holdout test_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_lgr_saga_elastic_
4	0.659249	No	0.664408	0.664616	19.141769	0.887584	0.821644	0.042
5	0.656470	No	0.661734	0.664603	19.724739	0.887584	0.787806	0.0285
12	0.647137	No	0.650972	0.655416	3.203472	0.887584	0.787806	0.0745
13	0.647114	No	0.650411	0.654944	1.937937	0.887584	0.787806	0.0332

<Figure size 640x480 with 0 Axes>



Fitting 5 folds for each of 20 candidates, totalling 100 fits

Results for dtree:

Models ranked by descending cv_rank_roc_auc

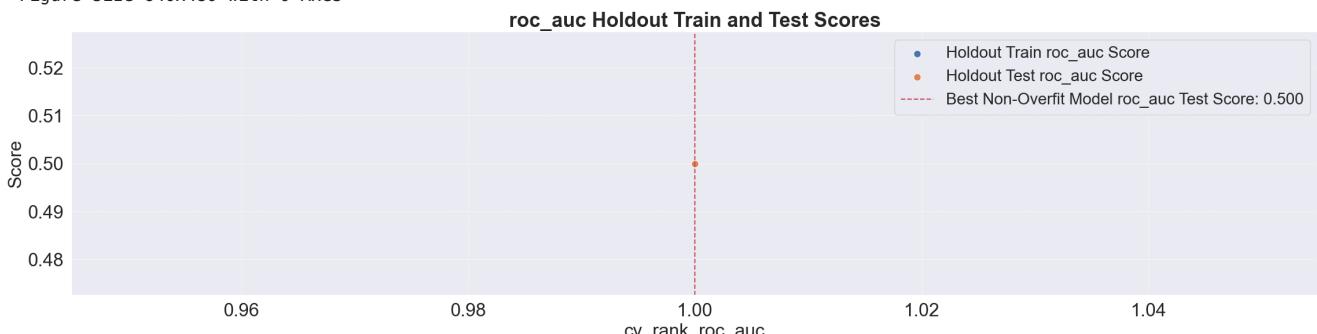
cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_dtreet_ccp_alpha
1	0.500000	No	0.500000	0.500000	0.915330	0.112416	0.012637	0.018727
1	0.500000	No	0.500000	0.500000	0.898198	0.112416	0.012637	0.030056
1	0.500000	No	0.500000	0.500000	18.087673	0.112416	0.012637	0.030874
1	0.500000	No	0.500000	0.500000	18.120451	0.112416	0.012637	0.022803

Models ranked by overfit status and descending holdout test_roc_auc

bank_marketing

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_dtreet_ccp_alpha
1	0.5	No	0.5	0.5	0.915330	0.112416	0.012637	0.018727
1	0.5	No	0.5	0.5	0.898198	0.112416	0.012637	0.030056
1	0.5	No	0.5	0.5	18.087673	0.112416	0.012637	0.030874
1	0.5	No	0.5	0.5	18.120451	0.112416	0.012637	0.022803

<Figure size 640x480 with 0 Axes>



Fitting 5 folds for each of 20 candidates, totalling 100 fits

Results for svc:

Models ranked by descending cv rank roc auc

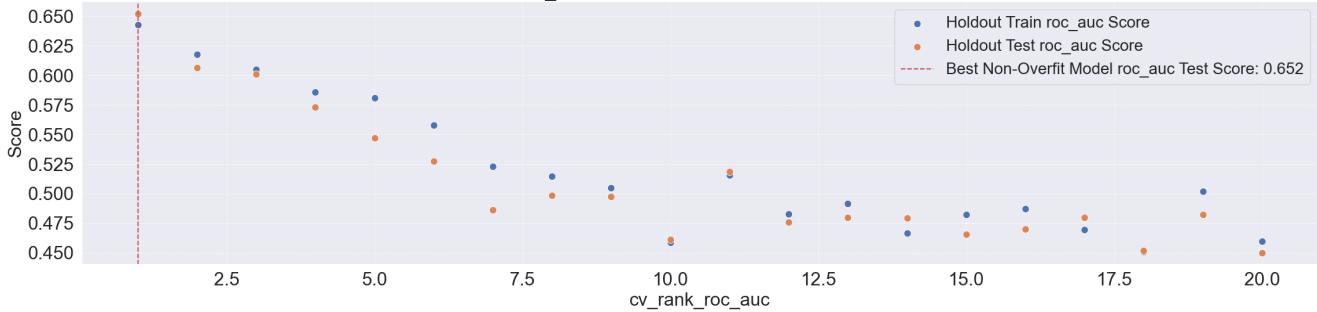
	cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_svc_C	param_s
1	0.624127		No	0.642986	0.652167	19.950604	0.887584	0.787806	0.002499	
2	0.614644		Yes	0.617674	0.606590	20.088655	0.887584	0.787806	0.001435	
3	0.606330		Yes	0.605105	0.601004	4.692253	0.887584	0.787806	0.000947	
4	0.578522		Yes	0.585813	0.572984	19.269870	0.887584	0.787806	0.013480	

Models ranked by overfit status and descending holdout test_roc_auc

	cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_svc_C	param_s
1	0.624127		No	0.642986	0.652167	19.950604	0.887584	0.787806	0.002499	
11	0.499786		No	0.515486	0.518740	5.983829	0.887518	0.787799	67.977374	
17	0.470420		No	0.469656	0.479967	5.557908	0.871454	0.807048	0.442425	
14	0.481683		No	0.466801	0.479362	22.296560	0.865899	0.797220	0.015027	

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roc_auc Holdout Train and Test Scores



Best Models From Each Grid/Random Search:

model	train roc_auc score	test roc_auc score	mean fit time	mean_test_accuracy	mean_test_precision
knn	0.673319	0.657396	1.735170	0.887584	0.787806
lgr	0.651818	0.657200	1.585244	0.560947	0.838054
lgr_saga_l12	0.650543	0.656226	1.705905	0.563042	0.837821
lgr_saga_elastic	0.664408	0.664616	19.141769	0.887584	0.821644
dtree	0.500000	0.500000	0.915330	0.112416	0.012637
svc	0.642986	0.652167	19.950604	0.887584	0.787806

SET 3 RESULTS/ANALYSIS:

lgr performed had the best non-overfit model based on our primary metric ROC AUC but also had a high precision and a low mean fit time:

- Test ROC AUC: 0.6572 (Non-Overfit)
- CV Test Precision: 0.8381
- Mean Fit Time: 1.58s

SET 4: Weighted Pipelines, 5 features, no imputing, duplicates dropped

```
In [82]: # Remove duplicates
no_impute_no_dups = pd.concat([X5,y5], axis=1)
no_impute_no_dups.drop_duplicates(inplace=True)
X_no_impute_no_dups, y_no_impute_no_dups = no_impute_no_dups.drop(columns='y'), no_impute_no_dups.y
X_no_impute_no_dups.shape, y_no_impute_no_dups.shape
Out[82]: ((7926, 5), (7926,))
```

We only have two rows containing default = yes and this causes an issue in computing accuracy and precision

```
In [86]: X_no_impute_no_dups.default.value_counts()
```

```
Out[86]: no      5515  
unknown    2409  
yes        2  
Name: default, dtype: int64
```

```
In [87]: #run pipelines for set 4. With a smaller dataset we can afford to improve the number of iterations to 30  
results_df_set4, models_set4 = tools.run_pipelines(pipe_param_pairs = pipe_param_pairs_weighted,
```

```
X=X_no_impute_no_dups,  
y=y_no_impute_no_dups,  
test_size=0.25,  
stratify=y_no_impute_no_dups,  
random_state=42,  
search_type='random',  
scoring=scoring_metrics,  
refit='roc_auc',  
holdout_tolerance=0,  
verbose=1,  
cv=5,  
n_iter=30,  
summary=True)
```

```
Fitting 5 folds for each of 30 candidates, totalling 150 fits
```

```
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __check_call
    result, _ = _get_response_values(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transform_one
    res = transformer.transform(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 106, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 109, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
```

```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                   ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
                   ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
                   ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
                   ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
                   ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
                   ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
                   ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
                   ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
                   ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
                   ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
                   ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
                   ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
                   ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
                   ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
                   ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
                   ~~~~~

```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
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    res = transformer.transform(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
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    raise ValueError(msg)
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ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    result, _ = _get_response_values(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values

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y_pred = prediction_method(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision
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- Xt = transform.transform(Xt)
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ne 816, in transform
    Xs = self._fit_transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
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    return super().__call__(iterable_with_config)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
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    y_pred = method_caller(estimator, "predict", X)
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    result, _ = _get_response_values(
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et_response_values
    y_pred = prediction_method(X)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
                   ^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
          ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
                   ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
           ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
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          ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
          ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
          ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
          ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
          ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li

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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
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    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
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    job = self._backend.apply_async(batch, callback=cb)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
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    res = transformer.transform(X)
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wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)()

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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        result, _ = _get_response_values(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
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    self._dispatch(tasks)
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    res = transformer.transform(X)
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    X_int, X_mask = self._transform(
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    Xs = self._fit_transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
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    y_pred = prediction_method(X)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async

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        result = ImmediateResult(func)
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    X_int, X_mask = self._transform(
    ^^^^^^^^^^^^^^

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        return super().__call__(iterable_with_config)
            ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
            ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
            ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
        result = ImmediateResult(func)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
        self.results = batch()
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
        return [func(*args, **kwargs)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
        return self.function(*args, **kwargs)
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```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
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    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
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    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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et_response_values
    y_pred = prediction_method(X)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision
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    Xt = transform.transform(Xt)
    ~~~~~~
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ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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et_response_values
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    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
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    ~~~~~
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all__
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    X_int, X_mask = self._transform(
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    result, _ = _get_response_values(
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    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

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```
warnings.warn(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
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            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
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    score = scorer._score(
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        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
            y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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                result, _ = _get_response_values(
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                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
                    y_pred = prediction_method(X)
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                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
                        Xt = transform.transform(Xt)
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                            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
                                Xs = self._fit_transform(
                                ~~~~~
                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
                                    return Parallel(n_jobs=self.n_jobs)(
                                    ~~~~~
                                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
                                        return super().__call__(iterable_with_config)
                                        ~~~~~
                                        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
                                            while self.dispatch_one_batch(iterator):
                                            ~~~~~
                                            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
                                                self._dispatch(tasks)
                                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
                                                    job = self._backend.apply_async(batch, callback=cb)
                                                    ~~~~~
                                                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
                                                        result = ImmediateResult(func)
                                                        ~~~~~
                                                        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
                                                            self.results = batch()
                                                            ~~~~~
                                                            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
                                                                return [func(*args, **kwargs)]
                                                                ~~~~~
                                                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
                                                                return [func(*args, **kwargs)
                                                                ~~~~~
                                                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
                                                                return self.function(*args, **kwargs)
                                                                ~~~~~
                                                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
                                                                res = transformer.transform(X)
                                                                ~~~~~
                                                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
                                                                    data_to_wrap = f(self, X, *args, **kwargs)
                                                                    ~~~~~
                                                                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
                                                                X_int, X_mask = self._transform(
                                                                ~~~~~
                                                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
                                                                raise ValueError(msg)
                                                                ValueError: Found unknown categories ['yes'] in column 1 during transform

                                                                warnings.warn(
                                                                /Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
                                                                Traceback (most recent call last):
                                                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
                                                                    score = scorer._score(
                                                                    ~~~~~
                                                                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score

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y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
            ^^^^^^

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
              ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                  ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
          ^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
          ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
          ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                  ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
              ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
              ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
              ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
              ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict

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Xt = transform.transform(Xt)
^^^^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                 ^^^^^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
          ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
          ^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
          ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
          ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
          ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
          ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                 ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
          ^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
          ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
          ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
          ^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
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        ~~~~~
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    return [func(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li

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ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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    self._dispatch(tasks)
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    job = self._backend.apply_async(batch, callback=cb)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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        y_pred = prediction_method(X)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
            ~~~~~
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__

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        return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
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        result = ImmediateResult(func)
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        self.results = batch()
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        X_int, X_mask = self._transform(
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        y_pred = method_caller(estimator, "predict", X)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
        y_pred = prediction_method(X)
        ^^^^^^

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        Xs = self._fit_transform(
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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        while self.dispatch_one_batch(iterator):
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
        ^^^^^^

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one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
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    job = self._backend.apply_async(batch, callback=cb)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
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wrapped
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
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        ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>
    return [func(*args, **kwargs)
           ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
           ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
           ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 106, in transform
    X_int, X_mask = self._transform(
                      ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in score
    y_pred = method_caller(estimator, "predict", X)
              ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
           ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
          ^^^^^^^^^^^^^^
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    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>
    return [func(*args, **kwargs)
           ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
```

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        return self.function(*args, **kwargs)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
    rm_one
        res = transformer.transform(X)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
    wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
    016, in transform
        X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
    99, in _transform
        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _c
    all_
        score = scorer._score(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _s
core
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
        result, _ = _get_response_values(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
        y_pred = prediction_method(X)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_
function
    Xt = transform.transform(Xt)
    ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
        return super().__call__(iterable_with_config)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self.backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
        result = ImmediateResult(func)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
        self.results = batch()
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
        return [func(*args, **kwargs)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
        return [func(*args, **kwargs)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __c
all__
        return self.function(*args, **kwargs)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
        res = transformer.transform(X)

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __cached_call
    result, _ = _get_response_values(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call_all_
    return super().__call__(iterable_with_config)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transform_one
    res = transformer.transform(X)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1

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016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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_call__
    score = scorer._score(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __
ached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __
et_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_
function
    Xt = transform.transform(Xt)
        ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __
call__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in __
apply_async
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __
init__
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rm_one
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        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
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        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform

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        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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result, _ = _get_response_values(
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        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in

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wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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    X_int, X_mask = self._transform(
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        Xs = self._fit_transform(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
            ~~~~~

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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    X_int, X_mask = self._transform(
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        Xs = self._fit_transform(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
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/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
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_call__
    score = scorer._score(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __
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    y_pred = method_caller(estimator, "predict", X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __g
et_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
        ^^^^^^

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    score = scorer._score(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
    ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__

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        return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>     return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
        return self.function(*args, **kwargs)
        ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
        res = transformer.transform(X)
        ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
        X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 109, in _transform
        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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        ^^^^^^^^^^^^^^

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        y_pred = method_caller(estimator, "predict", X)
        ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform.transform(Xt)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
        Xs = self._fit_transform(
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
        return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
        result = ImmediateResult(func)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
        self.results = batch()
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
        return [func(*args, **kwargs)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>     return [func(*args, **kwargs)
        ^^^^^^^^^^

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
           ^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
           ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
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    warnings.warn(
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ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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ached_call
    result, _ = _get_response_values(
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_function
    Xt = transform.transform(Xt)
           ^^^^^^^^^^

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           ^^^^^^^^^^

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ne 670, in _fit_transform
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    while self.dispatch_one_batch(iterator):
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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    return [func(*args, **kwargs)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm
    X[...] = self.steps[-1][0].transform(X[...])
           ^^^^^^

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rm_one
    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
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        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
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        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)

```

```
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
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ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __g
et_response_values
    y_pred = prediction_method(X)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_
function
    Xt = transform.transform(Xt)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
    ~~~~~
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    while self.dispatch_one_batch(iterator):
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in __
apply_async
    result = ImmediateResult(func)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __
init__
    self.results = batch()
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
    ~~~~~
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo
rm_one
    res = transformer.transform(X)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~
```

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
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           ^^^^^^^^^^^^^^
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    y_pred = method_caller(estimator, "predict", X)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
           ^^^^^^
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    self.results = batch()
           ^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
           ^^^^^^
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    return self.function(*args, **kwargs)
           ^^^^^^
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rm_one
    res = transformer.transform(X)
           ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
           ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(

```

```
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
              ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
              ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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    return [func(*args, **kwargs)]
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
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          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transform_one
    res = transformer.transform(X)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
```

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score = scorer._score(
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
    y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
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    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __
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    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^
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one_batch
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
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    self.results = batch()
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    return [func(*args, **kwargs)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __
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    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
    ^^^^^^

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
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    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^^^^^
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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rm_one
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    data_to_wrap = f(self, X, *args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
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        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values

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et_response_values
    y_pred = prediction_method(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
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    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
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        y_pred = prediction_method(X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
        ~~~~~

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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~~~~~

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    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

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~~~~~
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        result, _ = _get_response_values(
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        y_pred = prediction_method(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li

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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
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wrapped
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016, in transform
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    y_pred = prediction_method(X)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision
_function
    Xt = transform.transform(Xt)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform

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        return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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    return super().__call__(iterable_with_config)
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    X_int, X_mask = self._transform(
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    raise ValueError(msg)
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    return super().__call__(iterable_with_config)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
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        ~~~~~
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    return [func(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    >
    return [func(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch

```

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self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
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    ^^^^^^^^^^^^^^^^^^
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    res = transformer.transform(X)
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    X_int, X_mask = self._transform(
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    raise ValueError(msg)
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    score = scorer._score(
    ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
    ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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    ^^^^^^^^^^^^^^
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    Xs = self._fit_transform(
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
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    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async

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        result = ImmediateResult(func)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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    ^^^^^^^^^^^^^^^^^^
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform()
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
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    warnings.warn(
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        score = scorer._score(
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        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
        Xs = self._fit_transform(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
        return super().__call__(iterable_with_config)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
        result = ImmediateResult(func)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
        self.results = batch()
        ^^^^^^

```

```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
            ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
            ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
            ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
                    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform
warnings.warn(

```

Results for lgr:

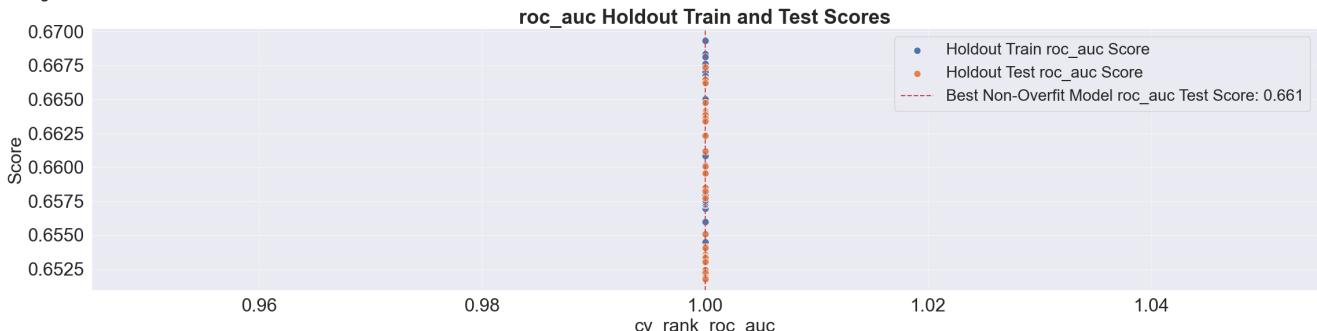
Models ranked by descending cv_rank_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_lgr_C	param_lg
1	nan	Yes	0.669322	0.667361	0.199462		nan	7.264803	0.380868
1	nan	Yes	0.668128	0.666525	0.568707		nan	70.456836	0.190468
1	nan	Yes	0.668326	0.666447	0.511222		nan	35.204810	0.380868
1	nan	Yes	0.668116	0.666199	0.269455		nan	1.146211	0.190468

Models ranked by overfit status and descending holdout test_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_lgr_C	param_lg
1	NaN	No	0.660832	0.661170	0.204934		NaN	0.002079	0.253912
1	NaN	No	0.654191	0.660173	0.289476		NaN	0.001009	0.380868
1	NaN	No	0.654413	0.660082	0.274537		NaN	0.001593	0.253912
1	NaN	No	0.655987	0.659547	0.271020		NaN	0.002115	0.380868

<Figure size 640x480 with 0 Axes>



Fitting 5 folds for each of 30 candidates, totalling 150 fits

```

/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __check_call
    result, _ = _get_response_values(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
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            ~~~~~
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    self._dispatch(tasks)
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    res = transformer.transform(X)
            ~~~~~
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    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 106, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 109, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    score = scorer._score(
            ~~~~~

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
                ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
                    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
                    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
                    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
                    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
                    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
                    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
                    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
                    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
                    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
                    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
                    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
                    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
                    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
                    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
                    ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
                    ~~~~~

```

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
        ^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^
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call__
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        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
call__
    score = scorer._score(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values

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y_pred = prediction_method(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision
function
- Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>     return [func(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
call__
    score = scorer._score(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __
score
    y_pred = method_caller(estimator, "predict", X)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __g
et_response_values
    y_pred = prediction_method(X)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~

```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
                   ^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
          ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
                   ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
          ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
          ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
          ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
          ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
          ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li

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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
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one_batch
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    job = self._backend.apply_async(batch, callback=cb)
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    result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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    return self.function(*args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
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ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __
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    y_pred = method_caller(estimator, "predict", X)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
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    Xs = self._fit_transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)()

```

```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
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    return Parallel(n_jobs=self.n_jobs)(
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    while self.dispatch_one_batch(iterator):
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)

```

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
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    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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    y_pred = prediction_method(X)
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    Xt = transform.transform(Xt)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async

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        result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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    X_int, X_mask = self._transform(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
                   ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
           ^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
           ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
           ^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
           ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
           ^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
           ^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
           ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
           ^^^^^^^^^^^

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        return [func(*args, **kwargs)
            ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
        return self.function(*args, **kwargs)
            ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
        res = transformer.transform(X)
            ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
            ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
        X_int, X_mask = self._transform(
            ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
            ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
            ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
            ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform.transform(Xt)
            ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
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        Xs = self._fit_transform(
            ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
            ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
        return super().__call__(iterable_with_config)
            ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
            ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
            ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
        result = ImmediateResult(func)
            ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
        self.results = batch()
            ^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
        return [func(*args, **kwargs)
            ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
        return [func(*args, **kwargs)
            ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
        return self.function(*args, **kwargs)
            ^^^^^^

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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ached_call
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et_response_values
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ne 816, in transform
    Xs = self._fit_transform(
           ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
           ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
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    return super().__call__(iterable_with_config)
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    while self.dispatch_one_batch(iterator):
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self.backend.apply_async(batch, callback=cb)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
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wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
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    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
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    y_pred = method_caller(estimator, "predict", X)
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    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
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    ~~~~~
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    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispat
ch
    job = self._backend.apply_async(batch, callback=cb)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in __
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    result = ImmediateResult(func)
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    return [func(*args, **kwargs)]
    ~~~~~
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    ~~~~~
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in __
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    X_int, X_mask = self._transform(
~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

```

```
warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
            ^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transform_one
    res = transformer.transform(X)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
```

```

_call_
    score = scorer._score(
        ~~~~~
        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
            y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ~~~~~
            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
                result, _ = _get_response_values(
                ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
                    y_pred = prediction_method(X)
                    ~~~~~
                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
                        Xt = transform.transform(Xt)
                        ~~~~~
                        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
                            data_to_wrap = f(self, X, *args, **kwargs)
                            ~~~~~
                            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
                                Xs = self._fit_transform(
                                ~~~~~
                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
                                    return Parallel(n_jobs=self.n_jobs)(
                                    ~~~~~
                                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
                                        return super().__call__(iterable_with_config)
                                        ~~~~~
                                        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
                                            while self.dispatch_one_batch(iterator):
                                            ~~~~~
                                            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
                                                self._dispatch(tasks)
                                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
                                                    job = self._backend.apply_async(batch, callback=cb)
                                                    ~~~~~
                                                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
                                                        result = ImmediateResult(func)
                                                        ~~~~~
                                                        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
                                                            self.results = batch()
                                                            ~~~~~
                                                            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
                                                                return [func(*args, **kwargs)]
                                                                ~~~~~
                                                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
                                                                return [func(*args, **kwargs)]
                                                                ~~~~~
                                                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
                                                                return self.function(*args, **kwargs)
                                                                ~~~~~
                                                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
                                                                res = transformer.transform(X)
                                                                ~~~~~
                                                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
                                                                    data_to_wrap = f(self, X, *args, **kwargs)
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                                                                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
                                                                X_int, X_mask = self._transform(
                                                                ~~~~~
                                                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
                                                                raise ValueError(msg)
                                                                ValueError: Found unknown categories ['yes'] in column 1 during transform

                                                                warnings.warn(
                                                                /Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
                                                                Traceback (most recent call last):
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                                                                    score = scorer._score(
                                                                    ~~~~~
                                                                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score

```

```

y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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        ^^^^^^
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    res = transformer.transform(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
            ^^^^^^

```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
              ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                  ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
          ^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
          ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
          ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                  ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
              ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
              ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
              ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
              ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict

```

```

Xt = transform.transform(Xt)
^^^^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                 ^^^^^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
          ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
          ^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
          ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
          ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
          ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
          ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                 ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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        score = scorer._score(
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        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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        result, _ = _get_response_values(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
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    data_to_wrap = f(self, X, *args, **kwargs)

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
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    return [func(*args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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    X_int, X_mask = self._transform(
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        y_pred = prediction_method(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform(transform(Xt)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li

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ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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    return [func(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
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        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

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/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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        score = scorer._score(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
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        y_pred = prediction_method(X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__

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        return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
        result = ImmediateResult(func)
        ^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
        self.results = batch()
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
        return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
        return [func(*args, **kwargs)
        ^^^^^^

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        return self.function(*args, **kwargs)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
        res = transformer.transform(X)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
        X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
        y_pred = prediction_method(X)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform.transform(Xt)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
        Xs = self._fit_transform(
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
        return super().__call__(iterable_with_config)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
        ^^^^^^

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one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
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    return [func(*args, **kwargs)
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    X_int, X_mask = self._transform(
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    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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    result, _ = _get_response_values(
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    y_pred = prediction_method(X)
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    Xt = transform.transform(Xt)
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    self._dispatch(tasks)
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    job = self._backend.apply_async(batch, callback=cb)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
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>    return [func(*args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
call__
    score = scorer._score(
    ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __
score
    y_pred = method_caller(estimator, "predict", X)
    ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
    ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __g
et_response_values
    y_pred = prediction_method(X)
    ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
    ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
    ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__

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    self.results = batch()
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>
    return [func(*args, **kwargs)
           ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
           ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
           ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 106, in transform
    X_int, X_mask = self._transform(
                      ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in score
    y_pred = method_caller(estimator, "predict", X)
              ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
           ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
          ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
           ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
           ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
                  ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>
    return [func(*args, **kwargs)
           ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
```

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        return self.function(*args, **kwargs)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
    rm_one
        res = transformer.transform(X)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
    wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
    016, in transform
        X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
    99, in _transform
        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _c
    all_
        score = scorer._score(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _s
core
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
        result, _ = _get_response_values(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
        y_pred = prediction_method(X)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_
function
    Xt = transform.transform(Xt)
    ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
        return super().__call__(iterable_with_config)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self.backend.apply_async(batch, callback=cb)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
        result = ImmediateResult(func)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
        self.results = batch()
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
        return [func(*args, **kwargs)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
        return [func(*args, **kwargs)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __c
all__
        return self.function(*args, **kwargs)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
        res = transformer.transform(X)

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __cached_call
    result, _ = _get_response_values(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call_all_
    return super().__call__(iterable_with_config)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transform_one
    res = transformer.transform(X)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1

```

```

016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_
function
    Xt = transform.transform(Xt)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __
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    job = self._backend.apply_async(batch, callback=cb)
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apply_async
    result = ImmediateResult(func)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __
init__
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        raise ValueError(msg)
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    y_pred = method_caller(estimator, "predict", X)
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    y_pred = prediction_method(X)
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __init__
    return Parallel(n_jobs=self.n_jobs)(
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __init__
    job = self._backend.apply_async(batch, callback=cb)
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    return self.function(*args, **kwargs)
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    res = transformer.transform(X)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in __init__
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:

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Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
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    raise ValueError(msg)
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    score = scorer._score(
            ~~~~~

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
    y_pred = method_caller(estimator, "predict", X)
              ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                  ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call

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result, _ = _get_response_values(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in

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wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
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    job = self._backend.apply_async(batch, callback=cb)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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        result, _ = _get_response_values(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
        Xs = self._fit_transform(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
        return super().__call__(iterable_with_config)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch

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job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
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    return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
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rm_one
    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
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score
    y_pred = method_caller(estimator, "predict", X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __g
et_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
    ^^^^^^
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    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
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    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__

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        return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>     return [func(*args, **kwargs)
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        res = transformer.transform(X)
        ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
        X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 109, in _transform
        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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        y_pred = method_caller(estimator, "predict", X)
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        result, _ = _get_response_values(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform(transform(Xt)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
        Xs = self._fit_transform(
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
        return super().__call__(iterable_with_config)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
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        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
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        job = self._backend.apply_async(batch, callback=cb)
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>     return [func(*args, **kwargs)
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wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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    X_int, X_mask = self._transform(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __
ached_call
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __
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    y_pred = prediction_method(X)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision
_function
    Xt = transform.transform(Xt)
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ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
           ^^^^^^^^^^

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           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
           ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
           ^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm
    X[...] = self.steps[-1][0].transform(X[...])
           ^^^^^^

```

```

rm_one
    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo rm_one
    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)

```

```
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __g
et_response_values
    y_pred = prediction_method(X)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_
function
    Xt = transform.transform(Xt)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in __
apply_async
    result = ImmediateResult(func)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __
init__
    self.results = batch()
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo
rm_one
    res = transformer.transform(X)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~
```

```
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __ached_call
    result, _ = _get_response_values(
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
           ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
           ^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
           ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
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           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo
rm_one
    res = transformer.transform(X)
           ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
           ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
```

```
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
              ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
              ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transform_one
    res = transformer.transform(X)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
```

```

score = scorer._score(
    ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
    y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ^^^^^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
    ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
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__init__
    self.results = batch()
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
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et_response_values
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_
function
    Xt = transform.transform(Xt)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values

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et_response_values
    y_pred = prediction_method(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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    self._dispatch(tasks)
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        ~~~~~
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        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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        score = scorer._score(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ~~~~~
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        result, _ = _get_response_values(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
        y_pred = prediction_method(X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
        ~~~~~

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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    while self.dispatch_one_batch(iterator):
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    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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    X_int, X_mask = self._transform(
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        y_pred = prediction_method(X)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform.transform(Xt)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li

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    Xs = self._fit_transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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    Xt = transform.transform(Xt)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform

```

```

        return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
all_
    return super().__call__(iterable_with_config)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
            ~~~~~

```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    >
    return [func(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch

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self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async

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    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform()
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
        ^^^^^^
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        y_pred = prediction_method(X)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
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        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
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        ^^^^^^
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        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
        result = ImmediateResult(func)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
        self.results = batch()
        ^^^^^^

```

```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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           ^^^^^^^^^^^^^^
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    return self.function(*args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
           ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
                      ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform
warnings.warn(

```

Results for lgr_saga_l1l2:

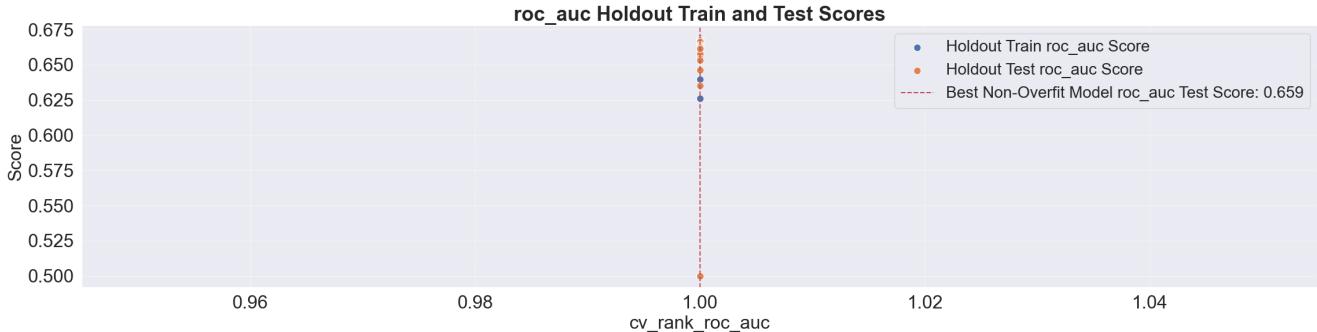
Models ranked by descending cv_rank_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_lgr_saga_l1l2_C
1	nan	Yes	0.668677	0.668138	1.148257	nan	nan	0.190700
1	nan	Yes	0.669120	0.667595	0.354160	nan	nan	11.948328
1	nan	Yes	0.669303	0.667455	0.321455	nan	nan	4.446629
1	nan	Yes	0.667319	0.667302	0.688171	nan	nan	0.094570

Models ranked by overfit status and descending holdout test_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_lgr_saga_l1l2_C
1	NaN	No	0.656486	0.659135	0.266176	NaN	NaN	0.003796
1	NaN	No	0.656950	0.658259	0.244274	NaN	NaN	0.001267
1	NaN	No	0.657159	0.658181	2.974797	NaN	NaN	0.294427
1	NaN	No	0.657223	0.658135	0.249949	NaN	NaN	0.001434

<Figure size 640x480 with 0 Axes>



Fitting 5 folds for each of 30 candidates, totalling 150 fits

```
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __check_call
    result, _ = _get_response_values(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transform_one
    res = transformer.transform(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 106, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 109, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
```

```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                   ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
               ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
               ~~~~~

```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
        ^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
call__
    score = scorer._score(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values

```

```

y_pred = prediction_method(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision
function
- Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>     return [func(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
call__
    score = scorer._score(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __
score
    y_pred = method_caller(estimator, "predict", X)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __g
et_response_values
    y_pred = prediction_method(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~

```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
                   ^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
          ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
                   ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
           ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
          ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
          ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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    y_pred = prediction_method(X)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
          ^^^^^^

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                   ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li

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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
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        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
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        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
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rm_one
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
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        ^^^^^^^^^^
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        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)()

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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    return [func(*args, **kwargs)]
        ~~~~~
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        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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        score = scorer._score(
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        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ~~~~~
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        result, _ = _get_response_values(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
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    warnings.warn(
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    return Parallel(n_jobs=self.n_jobs)(
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    while self.dispatch_one_batch(iterator):
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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    Xt = transform.transform(Xt)
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    return Parallel(n_jobs=self.n_jobs)(
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    job = self._backend.apply_async(batch, callback=cb)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async

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        result = ImmediateResult(func)
        ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
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    return [func(*args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

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        result, _ = _get_response_values(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform.transform(Xt)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
        Xs = self._fit_transform(
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
        return super().__call__(iterable_with_config)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
        result = ImmediateResult(func)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
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        Xs = self._fit_transform(
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        return Parallel(n_jobs=self.n_jobs)(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transformation_one
    res = transformer.transform(X)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~
```

```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

```

```
warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
            ^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transform_one
    res = transformer.transform(X)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
```

```

_call_
    score = scorer._score(
        ~~~~~
        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
            y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ~~~~~
            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
                result, _ = _get_response_values(
                ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
                    y_pred = prediction_method(X)
                    ~~~~~
                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
                        Xt = transform.transform(Xt)
                        ~~~~~
                        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
                            data_to_wrap = f(self, X, *args, **kwargs)
                            ~~~~~
                            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
                                Xs = self._fit_transform(
                                ~~~~~
                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
                                    return Parallel(n_jobs=self.n_jobs)(
                                    ~~~~~
                                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
                                        return super().__call__(iterable_with_config)
                                        ~~~~~
                                        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
                                            while self.dispatch_one_batch(iterator):
                                            ~~~~~
                                            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
                                                self._dispatch(tasks)
                                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
                                                    job = self._backend.apply_async(batch, callback=cb)
                                                    ~~~~~
                                                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
                                                        result = ImmediateResult(func)
                                                        ~~~~~
                                                        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
                                                            self.results = batch()
                                                            ~~~~~
                                                            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
                                                                return [func(*args, **kwargs)]
                                                                ~~~~~
                                                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
                                                                return [func(*args, **kwargs)
                                                                ~~~~~
                                                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
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                                                                res = transformer.transform(X)
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                                                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
                                                                    data_to_wrap = f(self, X, *args, **kwargs)
                                                                    ~~~~~
                                                                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
                                                                X_int, X_mask = self._transform(
                                                                ~~~~~
                                                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
                                                                raise ValueError(msg)
                                                                ValueError: Found unknown categories ['yes'] in column 1 during transform

                                                                warnings.warn(
                                                                /Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
                                                                Traceback (most recent call last):
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                                                                    score = scorer._score(
                                                                    ~~~~~
                                                                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score

```

```

y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
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    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
            ^^^^^^

```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
              ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                  ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
          ^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
          ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
          ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                  ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
              ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict

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Xt = transform.transform(Xt)
^^^^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
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          ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
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    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

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/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
              ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
              ^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
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    return Parallel(n_jobs=self.n_jobs)(
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        ~~~~~
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        ~~~~~
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    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
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    Xt = transform(transform(Xt)
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        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li

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ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
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    result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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    X_int, X_mask = self._transform(
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    raise ValueError(msg)
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    Xs = self._fit_transform(
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    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__

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        return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

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        while self.dispatch_one_batch(iterator):
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        ^^^^^^

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one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>
    return [func(*args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ~~~~~

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
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ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
call__
    score = scorer._score(
    ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __
score
    y_pred = method_caller(estimator, "predict", X)
    ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
    ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __g
et_response_values
    y_pred = prediction_method(X)
    ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
    ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
    ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__

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self.results = batch()
^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
           ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
           ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
           ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
                      ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
               ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
           ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
                  ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>
    return [func(*args, **kwargs)
           ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
           ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
           ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 106, in transform
    X_int, X_mask = self._transform(
                      ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    score = scorer._score(
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in score
    y_pred = method_caller(estimator, "predict", X)
              ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
          ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
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    job = self._backend.apply_async(batch, callback=cb)
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    return [func(*args, **kwargs)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>
    return [func(*args, **kwargs)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__

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        return self.function(*args, **kwargs)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
    rm_one
        res = transformer.transform(X)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
    wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
    016, in transform
        X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
    99, in _transform
        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _c
    all_
        score = scorer._score(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _s
core
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
        result, _ = _get_response_values(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
        y_pred = prediction_method(X)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_
function
    Xt = transform.transform(Xt)
    ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
        return super().__call__(iterable_with_config)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
        result = ImmediateResult(func)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
        self.results = batch()
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
        return [func(*args, **kwargs)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
        return [func(*args, **kwargs)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __c
all__
        return self.function(*args, **kwargs)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
        res = transformer.transform(X)

```

```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __cached_call
    result, _ = _get_response_values(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call_all_
    return super().__call__(iterable_with_config)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transform_one
    res = transformer.transform(X)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1

```

```

016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __
ached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __
et_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_
function
    Xt = transform.transform(Xt)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __
call__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^
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apply_async
    result = ImmediateResult(func)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __
init__
    self.results = batch()
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    >
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        ^^^^^^
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    return self.function(*args, **kwargs)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo
rm_one
    res = transformer.transform(X)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform

```

```

        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
           ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __init__
    return Parallel(n_jobs=self.n_jobs)(
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __init__
    job = self._backend.apply_async(batch, callback=cb)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
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    return [func(*args, **kwargs)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
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    res = transformer.transform(X)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in __init__
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:

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Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
              ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
              ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
          ^^^^^^^^^^
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^
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    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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    data_to_wrap = f(self, X, *args, **kwargs)
                  ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    score = scorer._score(
            ^^^^^^

```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
    y_pred = method_caller(estimator, "predict", X)
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
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    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
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        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call

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result, _ = _get_response_values(
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
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        y_pred = method_caller(estimator, "predict", X)
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        result, _ = _get_response_values(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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    while self.dispatch_one_batch(iterator):
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    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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    res = transformer.transform(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in

```

```
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
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    result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
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    res = transformer.transform(X)
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        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
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    Xs = self._fit_transform(
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            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
        Xs = self._fit_transform(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
            ~~~~~

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
           ^^^^^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
           ^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
           ^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
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        y_pred = prediction_method(X)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform.transform(Xt)
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        Xs = self._fit_transform(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
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  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
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  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    
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job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

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apply_async
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    return [func(*args, **kwargs)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
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et_response_values
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ne 816, in transform
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ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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        y_pred = prediction_method(X)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform(transform(Xt)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
        Xs = self._fit_transform(
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
        return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
        result = ImmediateResult(func)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
        self.results = batch()
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
        return [func(*args, **kwargs)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>     return [func(*args, **kwargs)
        ^^^^^^^^^^

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
           ^^^^^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
           ^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
           ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
           ^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __
ached_call
    result, _ = _get_response_values(
           ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __
et_response_values
    y_pred = prediction_method(X)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision
_function
    Xt = transform.transform(Xt)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __
call__
    return super().__call__(iterable_with_config)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
           ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
           ^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm
    X[...] = self.steps[-1][0].transform(X[...])
           ^^^^^^

```

```

rm_one
    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo rm_one
    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)

```

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __g
et_response_values
    y_pred = prediction_method(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_
function
    Xt = transform.transform(Xt)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in __
apply_async
    result = ImmediateResult(func)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __
init__
    self.results = batch()
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo
rm_one
    res = transformer.transform(X)
        ~~~~~
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wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
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        ~~~~~

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    score = scorer._score(
           ^^^^^^^^^^^^^^
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    y_pred = method_caller(estimator, "predict", X)
           ^^^^^^^^^^^^^^
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    result, _ = _get_response_values(
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
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           ^^^^^^^^^^
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    Xt = transform.transform(Xt)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
           ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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           ^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
           ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo
rm_one
    res = transformer.transform(X)
           ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
           ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(

```

```
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
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    return [func(*args, **kwargs)]
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
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    res = transformer.transform(X)
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                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
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score = scorer._score(
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
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    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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    X_int, X_mask = self._transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

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        y_pred = prediction_method(X)
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    Xt = transform.transform(Xt)
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~~~~~
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ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li

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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
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__init__
    self.results = batch()
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
        ^^^^^^
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call__
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        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
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ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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call__
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        ^^^^^^
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score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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et_response_values
    y_pred = prediction_method(X)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_
function
    Xt = transform.transform(Xt)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform

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        return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
all_
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^
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    result = ImmediateResult(func)
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    self.results = batch()
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    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
    ^^^^^^^^^^
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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        score = scorer._score(
        ^^^^^^
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        y_pred = method_caller(estimator, "predict", X)
        ^^^^^^^^^^
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        result, _ = _get_response_values(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^

```

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ~~~~~
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    >
    return [func(*args, **kwargs)
        ~~~~~
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        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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        score = scorer._score(
            ~~~~~
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        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ~~~~~
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        result, _ = _get_response_values(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch

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self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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    ~~~~~~
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    X_int, X_mask = self._transform()
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        result, _ = _get_response_values(
        ~~~~~~
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        Xs = self._fit_transform(
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        return Parallel(n_jobs=self.n_jobs)(
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        return super().__call__(iterable_with_config)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ~~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async

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result = ImmediateResult(func)
^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
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    X_int, X_mask = self._transform(
                      ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
                  ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
                   ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
                      ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
                   ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
              ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
        Xs = self._fit_transform(
              ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
              ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
        return super().__call__(iterable_with_config)
              ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
              ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
              ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
        result = ImmediateResult(func)
              ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
        self.results = batch()

```

```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
           ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
           ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
           ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
                      ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform
warnings.warn(

```

Results for lgr_saga_elastic:

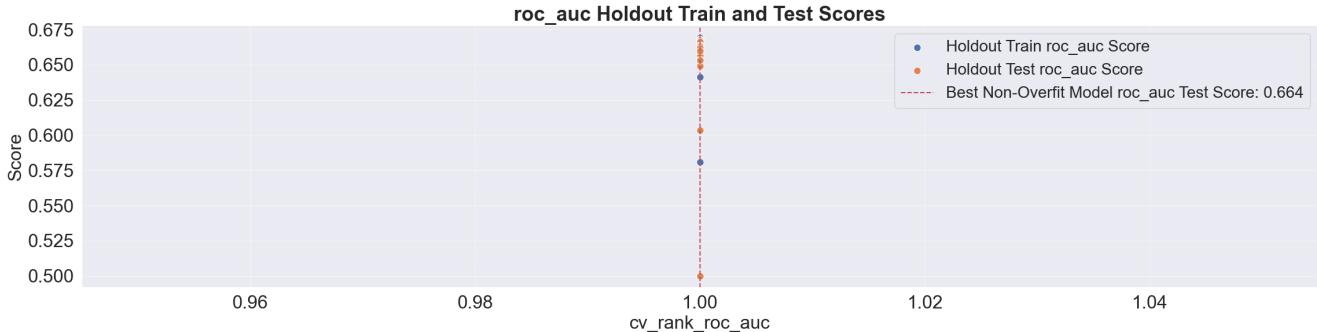
Models ranked by descending cv_rank_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_lgr_saga_elastic_
1	nan	Yes	0.668867	0.667914	0.560612	nan	nan	0.1978
1	nan	Yes	0.669021	0.667691	0.364381	nan	nan	0.1907
1	nan	Yes	0.669122	0.667588	0.338219	nan	nan	11.9483
1	nan	Yes	0.668508	0.667431	0.445842	nan	nan	0.0945

Models ranked by overfit status and descending holdout test_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_lgr_saga_elastic_
1	NaN	No	0.661365	0.663680	0.361936	NaN	NaN	0.042
1	NaN	No	0.655449	0.661741	0.267009	NaN	NaN	0.0285
1	NaN	No	0.654192	0.656953	0.276688	NaN	NaN	0.0115
1	NaN	No	0.652829	0.656460	0.477701	NaN	NaN	0.0745

<Figure size 640x480 with 0 Axes>



Fitting 5 folds for each of 30 candidates, totalling 150 fits

```

/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __call__
    result, _ = _get_response_values(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __call__
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __call__
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __call__
    res = transformer.transform(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 106, in __call__
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 109, in __call__
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __call__
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)

```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in __
score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
_proba
    Xt = transform.transform(Xt)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __
call__
    return super().__call__(iterable_with_config)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1

```

```

016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __
score
    y_pred = method_caller(estimator, "predict", X)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __
ached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __
et_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in __
apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __
init__
    self.results = batch()
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __c
all__
    return self.function(*args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo
rm_one
    res = transformer.transform(X)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)

```

```

ValueError: Found unknown categories ['yes'] in column 1 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
              ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
                      ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _score
    score = scorer._score(
              ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
              ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
              ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                  ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
          ^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
          ^^^^^^

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _
_call_
    score = scorer._score(
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _
score
    y_pred = method_caller(estimator, "predict", X)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped

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data_to_wrap = f(self, X, *args, **kwargs)
          ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
                      ^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
                      ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
                      ^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
                      ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _
_call_
    score = scorer._score(
                      ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _
score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
                      ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
                      ^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
                      ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
proba
    Xt = transform.transform(Xt)
          ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
          ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
          ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
          ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
          ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>     return [func(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>     return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __

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call_
    return self.function(*args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _c
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _c
all_
    score = scorer._score(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _c
score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
proba
    Xt = transform.transform(Xt)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self.backend.apply_async(batch, callback=cb)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in

```

```

apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _ached_call
        result, _ = _get_response_values(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
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    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^

```

```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
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           ~~~~~
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                      ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
                   ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
                      ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
                   ~~~~~
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                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__

```

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while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
    ^^^^^^^^^^^^^^

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    res = transformer.transform(X)
    ^^^^^^^^^^^^^^

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    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    score = scorer._score(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
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    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    
```

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job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
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wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
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ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
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        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
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        score = scorer._score(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
        y_pred = prediction_method(X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform(Xt)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~

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        return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
        result = ImmediateResult(func)
        ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
        self.results = batch()
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
        return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
        return [func(*args, **kwargs)
        ^^^^^^

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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
        res = transformer.transform(X)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
        X_int, X_mask = self._transform(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _check_call
        result, _ = _get_response_values(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
        prediction_method = _check_response_method(estimator, response_method)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
        raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
        y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
        Xt = transform.transform(Xt)

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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        y_pred = prediction_method(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li

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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
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        ^^^^^^^^^^^^^^^^^^
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one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^^^^^^^^^
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__init__
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        ^^^^^^
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^
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rm_one
    res = transformer.transform(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
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        ^^^^^^^^^^^^^^
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AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

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    job = self._backend.apply_async(batch, callback=cb)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
        prediction_method = _check_response_method(estimator, response_method)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
        raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _

```

```

_call_
    score = scorer._score(
        ~~~~~
        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
            y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
            ~~~~~
            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
                result, _ = _get_response_values(
                ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
                    y_pred = prediction_method(X)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
                    Xt = transform.transform(Xt)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
                    data_to_wrap = f(self, X, *args, **kwargs)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
                    Xs = self._fit_transform(
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
                    return Parallel(n_jobs=self.n_jobs)(
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
                    return super().__call__(iterable_with_config)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
                    while self.dispatch_one_batch(iterator):
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
                    self._dispatch(tasks)
                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
                        job = self._backend.apply_async(batch, callback=cb)
                        ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
                    result = ImmediateResult(func)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
                    self.results = batch()
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
                    return [func(*args, **kwargs)]
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
                    return [func(*args, **kwargs)]
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
                    return self.function(*args, **kwargs)
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                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
                    res = transformer.transform(X)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
                    data_to_wrap = f(self, X, *args, **kwargs)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
                    X_int, X_mask = self._transform(
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
                    raise ValueError(msg)
                ValueError: Found unknown categories ['yes'] in column 1 during transform

                warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score

```

```

y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
        ^^^^^^^^^^

```

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in __
score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __
ached_call
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            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __
et_response_values
    y_pred = prediction_method(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
proba
    Xt = transform.transform(Xt)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
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__init__
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    return [func(*args, **kwargs)
            ~~~~~
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    res = transformer.transform(X)
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wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

warnings.warn(

```

```
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    y_pred = method_caller(estimator, "predict", X)
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            ~~~~~
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo rm_one
    res = transformer.transform(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
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score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
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ached_call
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get_response_values
    y_pred = prediction_method(X)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
_proba
    Xt = transform.transform(Xt)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __
call__
    return super().__call__(iterable_with_config)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
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rm_one
    res = transformer.transform(X)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1

```

```

016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    y_pred = method_caller(estimator, "predict", X)
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    Xt = transform.transform(Xt)
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        ^^^^^^^^^^
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    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
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one_batch
    self._dispatch(tasks)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in __transform
    raise ValueError(msg)

```

```

ValueError: Found unknown categories ['yes'] in column 1 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
              ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
                      ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _score
    score = scorer._score(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
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          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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    Xs = self._fit_transform(
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ^^^^^^
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    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^
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    result = ImmediateResult(func)
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```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
           ^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
           ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
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data_to_wrap = f(self, X, *args, **kwargs)
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    data_to_wrap = f(self, X, *args, **kwargs)
                      ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
          ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in _a
pply_async
    result = ImmediateResult(func)
          ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __i
nit__
    self.results = batch()
          ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>     return [func(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>     return [func(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
```

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call_
    return self.function(*args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _c
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _c
all_
    score = scorer._score(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _c
score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
proba
    Xt = transform.transform(Xt)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self.backend.apply_async(batch, callback=cb)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in

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apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _ached_call
        result, _ = _get_response_values(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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    X_int, X_mask = self._transform(
                      ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
                   ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
                      ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
                   ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__

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while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
    y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    
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job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
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ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _
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    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_-
proba
    Xt = transform.transform(Xt)
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ^^^^^^

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ~~~~~
>   File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ~~~~~
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        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
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    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
        y_pred = prediction_method(X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform(Xt)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__

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        return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
        result = ImmediateResult(func)
        ^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
        self.results = batch()
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
        return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
        return [func(*args, **kwargs)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
        return self.function(*args, **kwargs)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
        res = transformer.transform(X)
        ^^^^^^^^^^^^^^

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        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
        X_int, X_mask = self._transform(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _check_call
        result, _ = _get_response_values(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
        prediction_method = _check_response_method(estimator, response_method)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
        raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
        y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
        ^^^^^^^^^^

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        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
        Xt = transform.transform(Xt)

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in __g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
call__
    score = scorer._score(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in __
score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call

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result, _ = _get_response_values(
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
        ^^^^^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)

```

```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
        prediction_method = _check_response_method(estimator, response_method)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
        raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _

```

```

_call_
    score = scorer._score(
        ~~~~~
        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
            y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
            ~~~~~
            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
                result, _ = _get_response_values(
                ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
                    y_pred = prediction_method(X)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
                    Xt = transform.transform(Xt)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
                    data_to_wrap = f(self, X, *args, **kwargs)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
                    Xs = self._fit_transform(
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
                    return Parallel(n_jobs=self.n_jobs)(
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
                    return super().__call__(iterable_with_config)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
                    while self.dispatch_one_batch(iterator):
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
                    self._dispatch(tasks)
                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
                        job = self._backend.apply_async(batch, callback=cb)
                        ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
                    result = ImmediateResult(func)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
                    self.results = batch()
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
                    return [func(*args, **kwargs)]
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
                    return [func(*args, **kwargs)]
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
                    return self.function(*args, **kwargs)
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                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
                    res = transformer.transform(X)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
                    data_to_wrap = f(self, X, *args, **kwargs)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
                    X_int, X_mask = self._transform(
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
                    raise ValueError(msg)
                ValueError: Found unknown categories ['yes'] in column 1 during transform

                warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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        score = scorer._score(
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score

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```

y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
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    Xt = transform.transform(Xt)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
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    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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        ^^^^^^^^^^
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    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
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        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ^^^^^^^^^^
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    res = transformer.transform(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
        ^^^^^^^^^^

```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in __
score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __
ached_call
    result, _ = _get_response_values(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __
et_response_values
    y_pred = prediction_method(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
proba
    Xt = transform.transform(Xt)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
            ~~~~~
>   return [func(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo
rm_one
    res = transformer.transform(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

warnings.warn(

```

```

/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __ached_call
    result, _ = _get_response_values(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo rm_one
    res = transformer.transform(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)

```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in __
score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __
get_response_values
    y_pred = prediction_method(X)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
_proba
    Xt = transform.transform(Xt)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __
call__
    return super().__call__(iterable_with_config)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1

```

```

016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
        ^^^^^^^^^^
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score
    y_pred = method_caller(estimator, "predict", X)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __
ached_call
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et_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
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        ^^^^^^^^^^
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ne 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
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one_batch
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    job = self._backend.apply_async(batch, callback=cb)
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        ^^^^^^
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    return [func(*args, **kwargs)
        ^^^^^^^^^^
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        ^^^^^^^^^^
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        ^^^^^^^^^^
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wrapped
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in __transform
    raise ValueError(msg)

```

```

ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
              ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
                      ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _score
    score = scorer._score(
              ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
              ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
              ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                  ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
          ^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
          ^^^^^^

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _
_call_
    score = scorer._score(
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _
score
    y_pred = method_caller(estimator, "predict", X)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped

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data_to_wrap = f(self, X, *args, **kwargs)
          ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
                      ^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
                      ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
                      ^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
                      ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _
_call_
    score = scorer._score(
                      ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _
score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
                      ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
                      ^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
                      ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_-
proba
    Xt = transform.transform(Xt)
          ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                      ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
          ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_-
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
          ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
          ^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>     return [func(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>     return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __

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call_
    return self.function(*args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _c
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _c
all_
    score = scorer._score(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _c
score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
proba
    Xt = transform.transform(Xt)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self.backend.apply_async(batch, callback=cb)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in

```

```

apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _ached_call
        result, _ = _get_response_values(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
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    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^

```

```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
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                      ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
                   ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
                      ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__

```

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while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
    ^^^^^^^^^^^^^^

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    res = transformer.transform(X)
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    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    score = scorer._score(
    ^^^^^^^^^^

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    y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    
```

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job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
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    data_to_wrap = f(self, X, *args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
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ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
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        score = scorer._score(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
        y_pred = prediction_method(X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform(Xt)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__

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        return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
        result = ImmediateResult(func)
        ^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
        self.results = batch()
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
        return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
        return [func(*args, **kwargs)
        ^^^^^^

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        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
        res = transformer.transform(X)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
        X_int, X_mask = self._transform(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _check_call
        result, _ = _get_response_values(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
        prediction_method = _check_response_method(estimator, response_method)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
        raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
        y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
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        result, _ = _get_response_values(
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
        Xt = transform.transform(Xt)

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

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    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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    while self.dispatch_one_batch(iterator):
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
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    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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        score = scorer._score(
~~~~~
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        y_pred = method_caller(estimator, "predict", X)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
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    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li

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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^^^^^^^^^
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apply_async
    result = ImmediateResult(func)
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__init__
    self.results = batch()
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^
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rm_one
    res = transformer.transform(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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ached_call
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        ^^^^^^
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
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AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

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    Xt = transform.transform(Xt)
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~~~~~
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    job = self._backend.apply_async(batch, callback=cb)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
        prediction_method = _check_response_method(estimator, response_method)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
        raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _

```

```

_call_
    score = scorer._score(
        ~~~~~
        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
            y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
            ~~~~~
            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
                result, _ = _get_response_values(
                ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
                    y_pred = prediction_method(X)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
                    Xt = transform.transform(Xt)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
                    data_to_wrap = f(self, X, *args, **kwargs)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
                    Xs = self._fit_transform(
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
                    return Parallel(n_jobs=self.n_jobs)(
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
                    return super().__call__(iterable_with_config)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
                    while self.dispatch_one_batch(iterator):
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
                    self._dispatch(tasks)
                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
                        job = self._backend.apply_async(batch, callback=cb)
                        ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
                    result = ImmediateResult(func)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
                    self.results = batch()
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
                    return [func(*args, **kwargs)]
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
                    return [func(*args, **kwargs)]
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
                    return self.function(*args, **kwargs)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
                    res = transformer.transform(X)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
                    data_to_wrap = f(self, X, *args, **kwargs)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
                    X_int, X_mask = self._transform(
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
                    raise ValueError(msg)
                ValueError: Found unknown categories ['yes'] in column 1 during transform

                warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score

```

```

y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
        ^^^^^^^^^^

```

```
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in __score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _ached_call
    result, _ = _get_response_values(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
    y_pred = prediction_method(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
            ~~~~~
>   File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

  warnings.warn(
```

Results for knn:

Models ranked by descending cv_rank_roc_auc

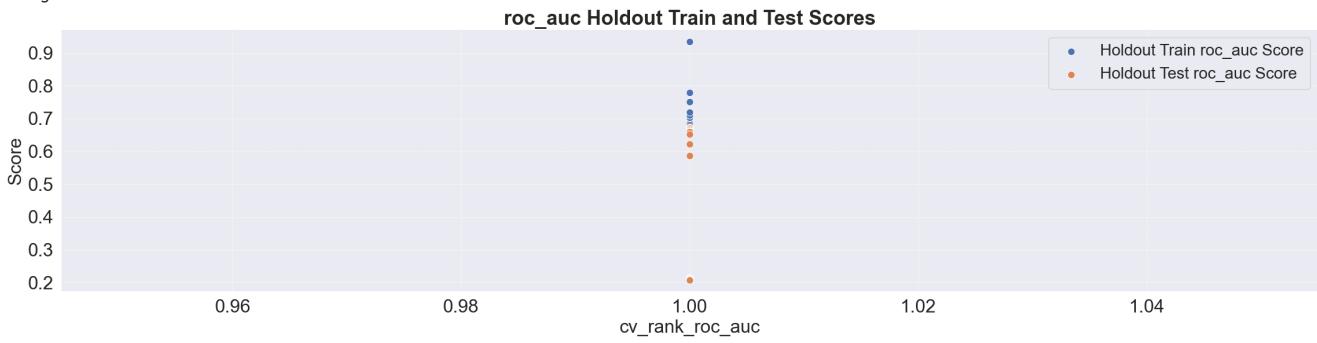
cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_knn_algorithm
1	nan	Yes	0.676003	0.674276	0.263576	nan	nan	brute
1	nan	Yes	0.674857	0.673461	0.424073	nan	nan	auto
1	nan	Yes	0.685139	0.671419	0.215155	nan	nan	kd_tree
1	nan	Yes	0.702596	0.668228	0.217629	nan	nan	auto

Models ranked by overfit status and descending holdout test_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_knn_algorithm
1	NaN	Yes	0.676003	0.674276	0.263576	NaN	NaN	brute
1	NaN	Yes	0.674857	0.673461	0.424073	NaN	NaN	auto
1	NaN	Yes	0.685139	0.671419	0.215155	NaN	NaN	kd_tree
1	NaN	Yes	0.702596	0.668228	0.217629	NaN	NaN	auto

No non-overfit models were found. Consider re-running the function with a holdout_threshold > 0

<Figure size 640x480 with 0 Axes>



```

/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __check_call
    result, _ = _get_response_values(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
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    return [func(*args, **kwargs)]
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
            ~~~~~
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    return self.function(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transform_one
    res = transformer.transform(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 106, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 109, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)

```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in __
score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
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    result, _ = _get_response_values(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __
get_response_values
    y_pred = prediction_method(X)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
_proba
    Xt = transform.transform(Xt)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __
call__
    return super().__call__(iterable_with_config)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
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    res = transformer.transform(X)
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    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1

```

```

016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
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ached_call
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et_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
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    Xs = self._fit_transform(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
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one_batch
    self._dispatch(tasks)
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apply_async
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        ^^^^^^
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    return [func(*args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^^^^^
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wrapped
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
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        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)

```

```

ValueError: Found unknown categories ['yes'] in column 1 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
              ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
                      ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _score
    score = scorer._score(
              ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
              ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
              ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                  ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
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          ^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
          ^^^^^^
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    return self.function(*args, **kwargs)
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```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
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    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
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```

```

data_to_wrap = f(self, X, *args, **kwargs)
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_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _
_call_
    score = scorer._score(
        ^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _
score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
proba
    Xt = transform.transform(Xt)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
        ^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp
>
    return [func(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform.transform(Xt)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
        return super().__call__(iterable_with_config)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
        result = ImmediateResult(func)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
        return [func(*args, **kwargs)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp
>
    return [func(*args, **kwargs)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __

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call_
    return self.function(*args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _c
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _c
all_
    score = scorer._score(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _c
score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
proba
    Xt = transform.transform(Xt)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self.backend.apply_async(batch, callback=cb)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in

```

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apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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        score = scorer._score(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _ached_call
        result, _ = _get_response_values(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
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    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
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                   ~~~~~
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    X_int, X_mask = self._transform(
                      ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
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    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
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    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
                   ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
                      ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
                   ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__

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while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
    y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    
```

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job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
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    ^^^^^^
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    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _
call_
    score = scorer._score(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _
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    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_-
proba
    Xt = transform.transform(Xt)
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ^^^^^^

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ~~~~~
>   File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
        y_pred = prediction_method(X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform(Xt)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~

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        return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
        result = ImmediateResult(func)
        ^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
        self.results = batch()
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
        return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
        return [func(*args, **kwargs)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
        return self.function(*args, **kwargs)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
        res = transformer.transform(X)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
        X_int, X_mask = self._transform(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _check_call
        result, _ = _get_response_values(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
        prediction_method = _check_response_method(estimator, response_method)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
        raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
        y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
        ^^^^^^^^^^

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        result, _ = _get_response_values(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
        Xt = transform.transform(Xt)

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
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~~~~~
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    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
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    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li

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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^
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call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in __g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
call__
    score = scorer._score(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in __
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ached_call

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result, _ = _get_response_values(
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
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    ^^^^^^
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    return [func(*args, **kwargs)]
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)

```

```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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    while self.dispatch_one_batch(iterator):
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
        prediction_method = _check_response_method(estimator, response_method)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
        raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _

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_call_
    score = scorer._score(
        ~~~~~
        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
            y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
            ~~~~~
            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
                result, _ = _get_response_values(
                ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
                    y_pred = prediction_method(X)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
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                        job = self._backend.apply_async(batch, callback=cb)
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```

```

y_pred = method_caller(estimator, "predict", X)
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    data_to_wrap = f(self, X, *args, **kwargs)
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    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
        ^^^^^^^^^^

```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in __
score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __
ached_call
    result, _ = _get_response_values(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __
et_response_values
    y_pred = prediction_method(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
proba
    Xt = transform.transform(Xt)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
            ~~~~~
>   return [func(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo
rm_one
    res = transformer.transform(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

warnings.warn(

```

```
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __ached_call
    result, _ = _get_response_values(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo rm_one
    res = transformer.transform(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in __
score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
_proba
    Xt = transform.transform(Xt)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __
call__
    return super().__call__(iterable_with_config)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
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    return self.function(*args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1

```

```

016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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_call__
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    y_pred = method_caller(estimator, "predict", X)
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ached_call
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        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^^^^^
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        ^^^^^^^^^^
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ne 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
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    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
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        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
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        ^^^^^^^^^^
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        ^^^^^^^^^^
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        ^^^^^^^^^^
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        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)

```

```

ValueError: Found unknown categories ['yes'] in column 1 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
              ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
                      ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _score
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              ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
              ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                  ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
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    return self.function(*args, **kwargs)
          ^^^^^^^^^^

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
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    Xt = transform.transform(Xt)
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    Xs = self._fit_transform(
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~~
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one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped

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data_to_wrap = f(self, X, *args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
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    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
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    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
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    return super().__call__(iterable_with_config)
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        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_-
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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        ^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>     return [func(*args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
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    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    result, _ = _get_response_values()
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __

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call_
    return self.function(*args, **kwargs)
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    prediction_method = _check_response_method(estimator, response_method)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
proba
    Xt = transform.transform(Xt)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self.backend.apply_async(batch, callback=cb)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in

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apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _ached_call
        result, _ = _get_response_values(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^

```

```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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                      ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
                   ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
                      ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
                   ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__

```

```

while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
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job = self._backend.apply_async(batch, callback=cb)
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apply_async
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
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    Xs = self._fit_transform(
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```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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    return [func(*args, **kwargs)
        ~~~~~
> File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
        y_pred = prediction_method(X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform(Xt)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~

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        return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
        result = ImmediateResult(func)
        ^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
        self.results = batch()
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
        return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
        return [func(*args, **kwargs)
        ^^^^^^

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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
        res = transformer.transform(X)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
        X_int, X_mask = self._transform(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _check_call
        result, _ = _get_response_values(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
        prediction_method = _check_response_method(estimator, response_method)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
        raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
        y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _check_call
        result, _ = _get_response_values(
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
        Xt = transform.transform(Xt)

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
~~~~~

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
~~~~~

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
~~~~~

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
~~~~~

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform.transform(Xt)
~~~~~

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li

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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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score
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in __g
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    prediction_method = _check_response_method(estimator, response_method)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
call__
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in __
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ached_call

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result, _ = _get_response_values(
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
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    Xt = transform.transform(Xt)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^
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        y_pred = method_caller(estimator, "predict", X)
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        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)

```

```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
        prediction_method = _check_response_method(estimator, response_method)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
        raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _

```

```

_call_
    score = scorer._score(
        ~~~~~
        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
            y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
            ~~~~~
            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
                result, _ = _get_response_values(
                ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
                    y_pred = prediction_method(X)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
                    Xt = transform.transform(Xt)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
                    data_to_wrap = f(self, X, *args, **kwargs)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
                    Xs = self._fit_transform(
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
                    return Parallel(n_jobs=self.n_jobs)(
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
                    return super().__call__(iterable_with_config)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
                    while self.dispatch_one_batch(iterator):
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
                    self._dispatch(tasks)
                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
                        job = self._backend.apply_async(batch, callback=cb)
                        ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
                    result = ImmediateResult(func)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
                    self.results = batch()
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
                    return [func(*args, **kwargs)]
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
                    return [func(*args, **kwargs)]
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
                    return self.function(*args, **kwargs)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
                    res = transformer.transform(X)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
                    data_to_wrap = f(self, X, *args, **kwargs)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
                    X_int, X_mask = self._transform(
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
                    raise ValueError(msg)
                ValueError: Found unknown categories ['yes'] in column 1 during transform

                warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score

```

```

y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
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        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
        ^^^^^^^^^^

```

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in __
score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
            ~~~~~
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ached_call
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __
et_response_values
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proba
    Xt = transform.transform(Xt)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
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apply_async
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            ~~~~~
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wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

warnings.warn(

```

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/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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    while self.dispatch_one_batch(iterator):
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
            ~~~~~
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    self.results = batch()
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    return [func(*args, **kwargs)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo rm_one
    res = transformer.transform(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in __
score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __
get_response_values
    y_pred = prediction_method(X)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
_proba
    Xt = transform.transform(Xt)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __
call__
    return super().__call__(iterable_with_config)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1

```

```

016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __
score
    y_pred = method_caller(estimator, "predict", X)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __
ached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __
et_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in __
apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __
init__
    self.results = batch()
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo
rm_one
    res = transformer.transform(X)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)

```

```

ValueError: Found unknown categories ['yes'] in column 1 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
              ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
                      ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _score
    score = scorer._score(
              ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
              ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
              ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                  ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
          ^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
          ^^^^^^

```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
           ^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
           ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _
_call_
    score = scorer._score(
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _
score
    y_pred = method_caller(estimator, "predict", X)
           ^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
           ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
           ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped

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```

data_to_wrap = f(self, X, *args, **kwargs)
^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _c
all_
    score = scorer._score(
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _c
ore
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
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    y_pred = prediction_method(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
proba
    Xt = transform.transform(Xt)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>     return [func(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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        score = scorer._score()
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~
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~~~~~
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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>     return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __

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call_
    return self.function(*args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _c
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _c
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _c
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    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
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proba
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    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self.backend.apply_async(batch, callback=cb)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in

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apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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        ^^^^^^^^^^
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    self.results = batch()
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
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    prediction_method = _check_response_method(estimator, response_method)
                      ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
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    Xt = transform.transform(Xt)
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    return super().__call__(iterable_with_config)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__

```

```

while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
    y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    
```

```
job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
    ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
    ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^
```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ~~~~~
>   File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
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        score = scorer._score(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
        y_pred = prediction_method(X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform(Xt)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__

```

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        return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
        result = ImmediateResult(func)
        ^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
        self.results = batch()
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
        return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
        return [func(*args, **kwargs)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
        res = transformer.transform(X)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
        X_int, X_mask = self._transform(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _check_call
        result, _ = _get_response_values(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
        prediction_method = _check_response_method(estimator, response_method)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
        raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
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        y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
        Xt = transform.transform(Xt)

```

```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li

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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in __g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
call__
    score = scorer._score(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in __
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    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call

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result, _ = _get_response_values(
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
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    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)

```

```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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    while self.dispatch_one_batch(iterator):
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
        prediction_method = _check_response_method(estimator, response_method)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
        raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _

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_call_
    score = scorer._score(
        ~~~~~
        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
            y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
            ~~~~~
            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
                result, _ = _get_response_values(
                ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
                    y_pred = prediction_method(X)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
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                        job = self._backend.apply_async(batch, callback=cb)
                        ~~~~~
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y_pred = method_caller(estimator, "predict", X)
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    data_to_wrap = f(self, X, *args, **kwargs)
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    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
        ^^^^^^^^^^

```

```
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in __score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _ached_call
    result, _ = _get_response_values(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
    y_pred = prediction_method(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
            ~~~~~
>   File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

  warnings.warn(
```

Results for dtree:

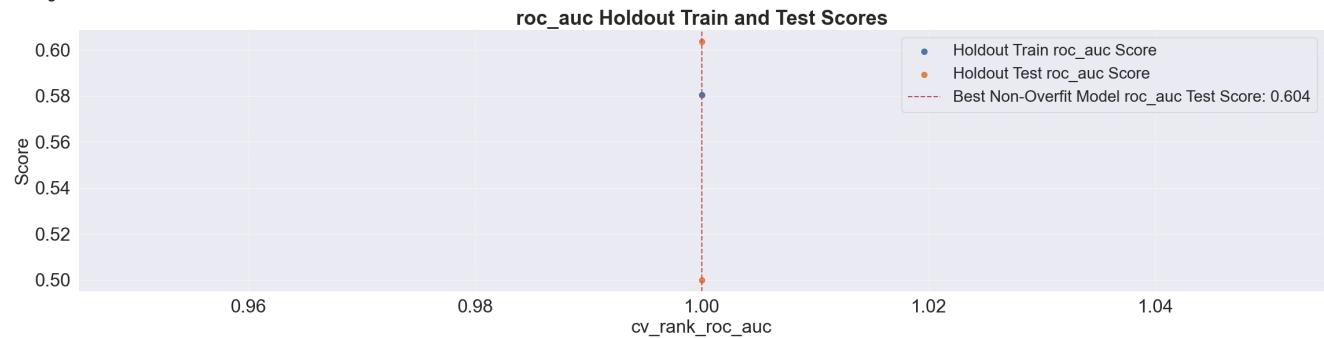
Models ranked by descending cv_rank_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_dtrees_ccp_alpha
1	nan	No	0.580527	0.603678	0.220105	nan	nan	0.015044
1	nan	No	0.500000	0.500000	0.258332	nan	nan	0.018727
1	nan	No	0.500000	0.500000	0.210593	nan	nan	0.030056
1	nan	No	0.500000	0.500000	0.154301	nan	nan	0.030874

Models ranked by overfit status and descending holdout test_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_dtrees_ccp_alpha
1	NaN	No	0.580527	0.603678	0.220105	NaN	NaN	0.015044
1	NaN	No	0.500000	0.500000	0.258332	NaN	NaN	0.018727
1	NaN	No	0.500000	0.500000	0.210593	NaN	NaN	0.030056
1	NaN	No	0.500000	0.500000	0.154301	NaN	NaN	0.030874

<Figure size 640x480 with 0 Axes>



Fitting 5 folds for each of 30 candidates, totalling 150 fits

```

/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __check_call
    result, _ = _get_response_values(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transform_one
    res = transformer.transform(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 106, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 109, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~

```

```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                   ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
               ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
               ~~~~~

```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
        ^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

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ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
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    score = scorer._score(
        ^^^^^^
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    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values

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y_pred = prediction_method(X)
~~~~~
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function
- Xt = transform.transform(Xt)
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ne 816, in transform
    Xs = self._fit_transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
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    self._dispatch(tasks)
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>     return [func(*args, **kwargs)
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rm_one
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    y_pred = method_caller(estimator, "predict", X)
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et_response_values
    y_pred = prediction_method(X)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
                   ^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
          ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
                   ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
           ^^^^^^^^^^^^^^

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    return self.function(*args, **kwargs)
          ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
          ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    score = scorer._score(
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
          ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
          ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
          ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li

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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
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one_batch
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rm_one
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        ^^^^^^^^^^^^^^
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wrapped
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        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
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    Xt = transform.transform(Xt)
        ^^^^^^
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        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)()

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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        result, _ = _get_response_values(
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        y_pred = prediction_method(X)
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        Xt = transform.transform(Xt)
            ~~~~~
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    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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  job = self._backend.apply_async(batch, callback=cb)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
  data_to_wrap = f(self, X, *args, **kwargs)
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  X_int, X_mask = self._transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
  return Parallel(n_jobs=self.n_jobs)(
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  while self.dispatch_one_batch(iterator):
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async

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        result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform.transform(Xt)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
        Xs = self._fit_transform(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _
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    score = scorer._score(
           ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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    result, _ = _get_response_values(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
           ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision
_function
    Xt = transform.transform(Xt)
           ~~~~~
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
           ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
           ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
           ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
           ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self.backend.apply_async(batch, callback=cb)
           ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
           ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
           ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
           ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
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wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __
score
    y_pred = method_caller(estimator, "predict", X)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
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    result, _ = _get_response_values(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __g
et_response_values
    y_pred = prediction_method(X)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
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    ~~~~~
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ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
    ~~~~~
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    while self.dispatch_one_batch(iterator):
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ~~~~~
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apply_async
    result = ImmediateResult(func)
    ~~~~~
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init__
    self.results = batch()
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
    ~~~~~
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    return [func(*args, **kwargs)]
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo
rm_one
    res = transformer.transform(X)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~
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~~~~~  
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1  
99, in _transform  
    raise ValueError(msg)  
ValueError: Found unknown categories ['yes'] in column 1 during transform  
  
    warnings.warn(  
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:  
Traceback (most recent call last):  
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__  
        score = scorer._score(  
~~~~~  
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score  
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)  
~~~~~  
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call  
    result, _ = _get_response_values(  
~~~~~  
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values  
    y_pred = prediction_method(X)  
~~~~~  
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function  
    Xt = transform.transform(Xt)  
~~~~~  
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped  
    data_to_wrap = f(self, X, *args, **kwargs)  
~~~~~  
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform  
    Xs = self._fit_transform(  
~~~~~  
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform  
    return Parallel(n_jobs=self.n_jobs)(  
~~~~~  
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__  
    return super().__call__(iterable_with_config)  
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    while self.dispatch_one_batch(iterator):  
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch  
    self._dispatch(tasks)  
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch  
    job = self._backend.apply_async(batch, callback=cb)  
~~~~~  
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async  
    result = ImmediateResult(func)  
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__  
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>  
    return [func(*args, **kwargs)]  
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    return self.function(*args, **kwargs)  
~~~~~  
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one  
    res = transformer.transform(X)  
~~~~~  
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped  
    data_to_wrap = f(self, X, *args, **kwargs)  
~~~~~  
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform  
    X_int, X_mask = self._transform(  
~~~~~  
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform  
    raise ValueError(msg)  
ValueError: Found unknown categories ['yes'] in column 1 during transform
```

```
warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/svm/_base.py:297: ConvergenceWarning: Solve
r terminated early (max_iter=20000). Consider pre-processing your data with StandardScaler or MinMaxScaler.
    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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score
    y_pred = method_caller(estimator, "predict", X)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __g
et_response_values
    y_pred = prediction_method(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
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    while self.dispatch_one_batch(iterator):
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
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wrapped
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
```

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ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
              ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
              ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
          ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                  ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                  ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/svm/_base.py:297: ConvergenceWarning: Solver terminated early (max_iter=20000). Consider pre-processing your data with StandardScaler or MinMaxScaler.
    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
    y_pred = method_caller(estimator, "predict", X)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform(Xt)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score

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y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _call_
    result, _ = _get_response_values(
^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
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    res = transformer.transform(X)
^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/svm/_base.py:297: ConvergenceWarning: Solver terminated early (max_iter=20000). Consider pre-processing your data with StandardScaler or MinMaxScaler.
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/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/svm/_base.py:297: ConvergenceWarning: Solver terminated early (max_iter=20000). Consider pre-processing your data with StandardScaler or MinMaxScaler.
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    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__

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score = scorer._score(
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
    y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __
call__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
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    ^^^^^^
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wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
call__
    score = scorer._score(
    ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
    ^^^^^^

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
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function
    Xt = transform.transform(Xt)
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    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
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et_response_values
    y_pred = prediction_method(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
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        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
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    job = self._backend.apply_async(batch, callback=cb)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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        result, _ = _get_response_values(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
        y_pred = prediction_method(X)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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        y_pred = method_caller(estimator, "predict", X)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
        y_pred = prediction_method(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li

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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^^^^^
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all__
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one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
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rm_one
    res = transformer.transform(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
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ached_call
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        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __g
et_response_values
    y_pred = prediction_method(X)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_
function
    Xt = transform.transform(Xt)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform

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        return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
all_
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
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    ^^^^^^^^^^^^^^^^^^^^^^^^^^
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    job = self._backend.apply_async(batch, callback=cb)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
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    data_to_wrap = f(self, X, *args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ^^^^^^
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    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
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            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch

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self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
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    score = scorer._score(
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
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    ^^^^^^
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async

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        result = ImmediateResult(func)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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    res = transformer.transform(X)
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    X_int, X_mask = self._transform()
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
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ValueError: Found unknown categories ['yes'] in column 1 during transform

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        score = scorer._score(
        ^^^^^^
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        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
        ^^^^^^
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        ^^^^^^
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        Xs = self._fit_transform(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
        result = ImmediateResult(func)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
        self.results = batch()
        ^^^^^^

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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                   ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
                      ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/svm/_base.py:297: ConvergenceWarning: Solver terminated early (max_iter=20000). Consider pre-processing your data with StandardScaler or MinMaxScaler.
    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    y_pred = method_caller(estimator, "predict", X)
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    y_pred = prediction_method(X)
           ^^^^^^^^^^
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    Xs = self._fit_transform(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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    return [func(*args, **kwargs)

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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rm_one
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
           ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
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r terminated early (max_iter=20000). Consider pre-processing your data with StandardScaler or MinMaxScaler.
    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
call__
    score = scorer._score(
           ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __
score
    y_pred = method_caller(estimator, "predict", X)
           ^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
           ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __g
et_response_values
    y_pred = prediction_method(X)
           ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
           ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
           ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
           ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
           ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
           ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
           ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
           ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
           ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>

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>     return [func(*args, **kwargs)
         ^^^^^^^^^^^^^^^^^^
         File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
             return self.function(*args, **kwargs)
         ^^^^^^^^^^^^^^^^^^
         File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
             res = transformer.transform(X)
         ^^^^^^^^^^^^^^^^^^
         File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
             data_to_wrap = f(self, X, *args, **kwargs)
         ^^^^^^^^^^^^^^^^^^
         File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
             X_int, X_mask = self._transform(
         ^^^^^^^^^^^^^^
         File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
             raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
      score = scorer._score(
         ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
      y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
         ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
      result, _ = _get_response_values(
         ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
      y_pred = prediction_method(X)
         ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
      Xt = transform.transform(Xt)
         ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
      data_to_wrap = f(self, X, *args, **kwargs)
         ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
      Xs = self._fit_transform(
         ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
      return Parallel(n_jobs=self.n_jobs)(
         ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
      return super().__call__(iterable_with_config)
         ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
      while self.dispatch_one_batch(iterator):
         ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
      self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
      job = self._backend.apply_async(batch, callback=cb)
         ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
      result = ImmediateResult(func)
         ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
      self.results = batch()
         ^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
      return [func(*args, **kwargs)
         ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
      return [func(*args, **kwargs)
         ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__

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        return self.function(*args, **kwargs)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
    rm_one
        res = transformer.transform(X)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
    wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
    016, in transform
        X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
    99, in _transform
        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/svm/_base.py:297: ConvergenceWarning: Solve
r terminated early (max_iter=2000). Consider pre-processing your data with StandardScaler or MinMaxScaler.
    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _
    _call_
        score = scorer._score(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _
    score
        y_pred = method_caller(estimator, "predict", X)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
    ached_call
        result, _ = _get_response_values(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
    et_response_values
        y_pred = prediction_method(X)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform.transform(Xt)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
    wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
    ne 816, in transform
        Xs = self._fit_transform(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
    ne 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
    all_
        return super().__call__(iterable_with_config)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
    one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
    apply_async
        result = ImmediateResult(func)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
    __init__
        self.results = batch()
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
        return [func(*args, **kwargs)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
        return [func(*args, **kwargs)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
    call_
        return self.function(*args, **kwargs)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo

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rm_one
    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __cached_call
    result, _ = _get_response_values(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
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    return [func(*args, **kwargs)]
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rm_one
    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped

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data_to_wrap = f(self, X, *args, **kwargs)
^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
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        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _
score
    y_pred = method_caller(estimator, "predict", X)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
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    result, _ = _get_response_values(
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
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    return [func(*args, **kwargs)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1

```

```

016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
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score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __
ached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __
et_response_values
    y_pred = prediction_method(X)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_
function
    Xt = transform.transform(Xt)
        ^^^^^^^^^^
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        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __
call__
    return super().__call__(iterable_with_config)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in __
apply_async
    result = ImmediateResult(func)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __
init__
    self.results = batch()
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
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016, in transform
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        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform

```

```

        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/svm/_base.py:297: ConvergenceWarning: Solver terminated early (max_iter=20000). Consider pre-processing your data with StandardScaler or MinMaxScaler.
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    warnings.warn(
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Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _ached_call
    result, _ = _get_response_values(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform

```

```

        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
           ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
           ^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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    while self.dispatch_one_batch(iterator):
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
           ^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
           ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/svm/_base.py:297: ConvergenceWarning: Solve

```

```
r terminated early (max_iter=20000). Consider pre-processing your data with StandardScaler or MinMaxScaler.
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/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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score
    y_pred = method_caller(estimator, "predict", X)
      ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
      ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __g
et_response_values
    y_pred = prediction_method(X)
      ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
      ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
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    Xs = self._fit_transform(
      ~~~~~
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
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    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
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```

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    score = scorer._score(
            ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
              ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
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    Xt = transform.transform(Xt)
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    Xs = self._fit_transform(
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                  ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ^^^^^^^^^^

```

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
    y_pred = method_caller(estimator, "predict", X)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c

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ached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
        ^^^^^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
        Xs = self._fit_transform(
        ^^^^^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
        return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
        result = ImmediateResult(func)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
        self.results = batch()
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
        return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
        return [func(*args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
        return self.function(*args, **kwargs)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
        res = transformer.transform(X)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
        X_int, X_mask = self._transform(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
        raise ValueError(msg)
    ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values

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y_pred = prediction_method(X)
          ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
          ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
          ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xt = self._transform(X)
          ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
          ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
          ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
          ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
          ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
          ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
          ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
          ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
          ~~~~~

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                  ^^^^^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
                  ^^^^^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
                  ^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
          ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
          ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                  ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/svm/_base.py:297: ConvergenceWarning: Solve r terminated early (max_iter=2000). Consider pre-processing your data with StandardScaler or MinMaxScaler.
    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
              ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
              ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
              ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
              ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform.transform(Xt)
              ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)

```

```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~

```

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ~~~~~
> File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/svm/_base.py:297: ConvergenceWarning: Solver terminated early (max_iter=20000). Consider pre-processing your data with StandardScaler or MinMaxScaler.
    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/svm/_base.py:297: ConvergenceWarning: Solver terminated early (max_iter=20000). Consider pre-processing your data with StandardScaler or MinMaxScaler.
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/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/svm/_base.py:297: ConvergenceWarning: Solver terminated early (max_iter=20000). Consider pre-processing your data with StandardScaler or MinMaxScaler.
    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
    y_pred = prediction_method(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li

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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
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        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
call__
    score = scorer._score(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __g
et_response_values
    y_pred = prediction_method(X)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision
_function
    Xt = transform.transform(Xt)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform

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        return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
all_
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
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    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
    ^^^^^^^^^^
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/svm/_base.py:297: ConvergenceWarning: Solver terminated early (max_iter=2000). Consider pre-processing your data with StandardScaler or MinMaxScaler.
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        y_pred = method_caller(estimator, "predict", X)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
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        y_pred = prediction_method(X)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform.transform(Xt)
        ^^^^^^
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        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
        Xs = self._fit_transform(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__

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all_
    return super().__call__(iterable_with_config)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
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        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
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    Xt = transform.transform(Xt)
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    Xs = self._fit_transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
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    while self.dispatch_one_batch(iterator):
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    X_int, X_mask = self._transform()  
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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    X_int, X_mask = self._transform(
           ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
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ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
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_call__
    score = scorer._score(
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __
score
    y_pred = method_caller(estimator, "predict", X)
           ^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
           ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __g
et_response_values
    y_pred = prediction_method(X)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
           ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __
init__
    self.results = batch()
           ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one

```

```

res = transformer.transform(X)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
                    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

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Traceback (most recent call last):
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    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
                    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
                    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
        ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
        ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
        ~~~~~
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rm_one
    res = transformer.transform(X)
        ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)

```

```
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
                      ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
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    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/svm/_base.py:297: ConvergenceWarning: Solve
r terminated early (max_iter=20000). Consider pre-processing your data with StandardScaler or MinMaxScaler.
    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    y_pred = method_caller(estimator, "predict", X)
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ached_call
    result, _ = _get_response_values(
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et_response_values
    y_pred = prediction_method(X)
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    Xt = transform.transform(Xt)
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                      ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
                      ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all_
    return super().__call__(iterable_with_config)
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    while self.dispatch_one_batch(iterator):
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self.backend.apply_async(batch, callback=cb)
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init__
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                      ~~~~~
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    return [func(*args, **kwargs)]
                      ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
                      ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
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    return self.function(*args, **kwargs)
                      ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo
rm_one
    res = transformer.transform(X)
                      ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                      ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
```

```

X_int, X_mask = self._transform(
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 1 during transform

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/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning:
Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
            ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
        y_pred = prediction_method(X)
            ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
            ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
        data_to_wrap = f(self, X, *args, **kwargs)
            ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
        Xs = self._fit_transform(
            ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
        return Parallel(n_jobs=self.n_jobs)(
            ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
        return super().__call__(iterable_with_config)
            ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
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            ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
        job = self._backend.apply_async(batch, callback=cb)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
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            ^^^^^^^^^^
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
        return self.function(*args, **kwargs)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transform_one
        res = transformer.transform(X)
            ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
        data_to_wrap = f(self, X, *args, **kwargs)
            ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
        X_int, X_mask = self._transform(
            ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in __transform
        raise ValueError(msg)

```

```
ValueError: Found unknown categories ['yes'] in column 1 during transform
```

```
warnings.warn()
```

Results for SVC:

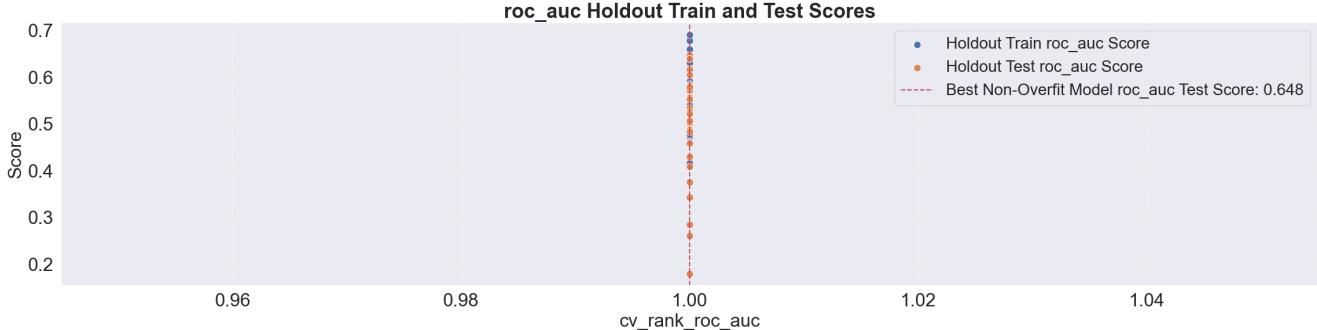
Models ranked by descending cv_rank_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_svc__C	param_s
1	nan	No	0.640872	0.647592	0.409076	nan	nan	0.002499	
1	nan	No	0.632603	0.640352	0.471124	nan	nan	0.067120	
1	nan	No	0.595576	0.618358	0.396107	nan	nan	0.001435	
1	nan	No	0.588461	0.616655	0.544315	nan	nan	0.000947	

Models ranked by overfit status and descending holdout test_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_svc__C	param_s
1	NaN	No	0.640872	0.647592	0.409076	NaN	NaN	0.002499	
1	NaN	No	0.632603	0.640352	0.471124	NaN	NaN	0.06712	
1	NaN	No	0.595576	0.618358	0.396107	NaN	NaN	0.001435	
1	NaN	No	0.588461	0.616655	0.544315	NaN	NaN	0.000947	

<Figure size 640x480 with 0 Axes>



Best Models From Each Grid/Random Search:

model	train roc_auc score	test roc_auc score	mean fit time	mean_test_accuracy	mean_test_precision
lgr	0.660832	0.661170	0.204934	nan	nan
lgr_saga_l1l2	0.656486	0.659135	0.266176	nan	nan
lgr_saga_elastic	0.661365	0.663680	0.361936	nan	nan
knn	0.676003	0.674276	0.263576	nan	nan
dtree	0.580527	0.603678	0.220105	nan	nan
svc	0.640872	0.647592	0.409076	nan	nan

SET 4 RESULTS/ANALYSIS:

- Unfortunately due to the sparse number of yes values in the default feature, calculating the CV accuracy and precision across the k-folds was not possible
- Our best non-overfit model is once again the lgr with saga solver and elasticnet penalty
- Test ROC AUC: 0.6637 (Non-Overfit) and Test Precision: N/A
- The knn model looks attractive, however it is overfit and has a relatively high fit time

To address the missing precision score we use our evaluate_models function which does holdout validation (no cv):

```
In [99]: #split the data and do holdout validation so that we can see the missing scores
X_train_set4, X_test_set4, y_train_set4, y_test_set4 = train_test_split(X_no_impute_no_dups,y_no_impute_no_dups,
#stratify=y_no_impute_no_dups,
```

```
random_state=42)
tools.evaluate_models(models_set4[2], X_train_set4, y_train_set4, X_test_set4, y_test_set4)
```

Out [99]:	Model	Train Time	Inference Time	Train Accuracy	Test Accuracy	Train Precision	Test Precision	Train Recall	Test Recall	Train f1	Test f1	Train ROC AUC	Test ROC AUC
0	Pipeline	0.635379	0.010787	0.750841	0.743189	0.563762	0.552329	0.750841	0.743189	0.64399	0.6337	0.664532	0.665936

SET 4 Second evaluation: Even though we have a better Test ROC AUC, our precision dropped drastically

SET 5: Weighted Pipelines, 5 features, Simple Imputer for all features except default, duplicates dropped

- We can start off with X_no_impute_no_dups which already has duplicates dropped
- We can apply our pipe/parameter pairs from earlier

```
In [102...]:
#run pipelines for set 5
results_df_set5, models_set5 = tools.run_pipelines(pipe_param_pairs = SI_pipe_param_pairs,
                                                    X=X_no_impute_no_dups,
                                                    y=y_no_impute_no_dups,
                                                    test_size=0.25,
                                                    stratify=y_no_impute_no_dups,
                                                    random_state=42,
                                                    search_type='random',
                                                    scoring=scoring_metrics,
                                                    refit='roc_auc',
                                                    holdout_tolerance=0,
                                                    verbose=1,
                                                    cv=5,
                                                    n_iter=30,
                                                    summary=True)
```

Fitting 5 folds for each of 30 candidates, totalling 150 fits

```

/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __check_call
    result, _ = _get_response_values(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
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            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transform_one
    res = transformer.transform(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 106, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 109, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
    y_pred = method_caller(estimator, "predict", X)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                   ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _g

```

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et_response_values
    prediction_method = _check_response_method(estimator, response_method)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
    ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
    ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
    ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
    ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^
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    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^
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    ^^^^^^
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    return [func(*args, **kwargs)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
    ^^^^^^^^^^
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    X_int, X_mask = self._transform(
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)

```

```

ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
              ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
                      ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

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    score = scorer._score(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
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    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^
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          ^^^^^^
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    while self.dispatch_one_batch(iterator):
          ^^^^^^
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
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```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
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    res = transformer.transform(X)
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
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    ~~~~~~
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    y_pred = method_caller(estimator, "predict", X)
    ~~~~~~
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    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
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    y_pred = prediction_method(X)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped

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data_to_wrap = f(self, X, *args, **kwargs)
^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _c
all_
    score = scorer._score(
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _c
ore
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
proba
    Xt = transform.transform(Xt)
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>     return [func(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>     return [func(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
```

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call_
    return self.function(*args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _c
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _c
all_
    score = scorer._score(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _c
score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
proba
    Xt = transform.transform(Xt)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self.backend.apply_async(batch, callback=cb)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in

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apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^
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    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
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        ^^^^^^
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    ^^^^^^
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    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
                      ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

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    y_pred = prediction_method(X)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__

```

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while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
    ^^^^^^^^^^

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    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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    X_int, X_mask = self._transform(
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    raise ValueError(msg)
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    score = scorer._score(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in score
    y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ^^^^^^^^^^

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    Xs = self._fit_transform(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    
```

```
job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
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    warnings.warn(
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AttributeError: Pipeline has none of the following attributes: decision_function.

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proba
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    Xs = self._fit_transform(
    ^^^^^^
```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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```

```

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        result, _ = _get_response_values(
        ^^^^^^^^^^

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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
        y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _check_call
        result, _ = _get_response_values(
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
        Xt = transform.transform(Xt)

```

```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li

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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in __g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
call__
    score = scorer._score(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in __
score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call

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result, _ = _get_response_values(
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
        ^^^^^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)

```

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
        prediction_method = _check_response_method(estimator, response_method)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
        raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _

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_call_
    score = scorer._score(
        ~~~~~
        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
            y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
            ~~~~~
            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
                result, _ = _get_response_values(
                ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
                    y_pred = prediction_method(X)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
                    Xt = transform.transform(Xt)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
                    data_to_wrap = f(self, X, *args, **kwargs)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
                    Xs = self._fit_transform(
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
                    return Parallel(n_jobs=self.n_jobs)(
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                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
                    return super().__call__(iterable_with_config)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
                    while self.dispatch_one_batch(iterator):
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
                    self._dispatch(tasks)
                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
                        job = self._backend.apply_async(batch, callback=cb)
                        ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
                    result = ImmediateResult(func)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
                    self.results = batch()
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
                    return [func(*args, **kwargs)]
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
                    return [func(*args, **kwargs)]
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
                    return self.function(*args, **kwargs)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
                    res = transformer.transform(X)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
                    data_to_wrap = f(self, X, *args, **kwargs)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
                    X_int, X_mask = self._transform(
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
                    raise ValueError(msg)
                ValueError: Found unknown categories ['yes'] in column 0 during transform

                warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score

```

```

y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^
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    res = transformer.transform(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
        ^^^^^^^^^^

```

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in __score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
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            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
    y_pred = prediction_method(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
            ~~~~~
>   return [func(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

  warnings.warn(
```

```

/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __ached_call
    result, _ = _get_response_values(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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            ~~~~~
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    return [func(*args, **kwargs)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo rm_one
    res = transformer.transform(X)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
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    score = scorer._score(
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et_response_values
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    ~~~~~
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    ~~~~~
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ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
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wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1

```

```

016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
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    result, _ = _get_response_values(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __
et_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in __
apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __
init__
    self.results = batch()
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __c
all__
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo
rm_one
    res = transformer.transform(X)
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wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in __transform
    raise ValueError(msg)

```

```

ValueError: Found unknown categories ['yes'] in column 0 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
              ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
                      ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _score
    score = scorer._score(
              ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
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                  ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
              ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                  ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
          ^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
          ^^^^^^^^^^

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _
_call_
    score = scorer._score(
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _
score
    y_pred = method_caller(estimator, "predict", X)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
    ~~~~~~
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    ~~~~~~
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wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
    ~~~~~~
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call__
    return self.function(*args, **kwargs)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped

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data_to_wrap = f(self, X, *args, **kwargs)
          ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
                      ^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
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Traceback (most recent call last):
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score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
                      ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
                      ^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _g
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    prediction_method = _check_response_method(estimator, response_method)
                      ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _
_call_
    score = scorer._score(
                      ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _
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et_response_values
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                      ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_-
proba
    Xt = transform.transform(Xt)
          ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
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          ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_-
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
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apply_async
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          ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>     return [func(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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~~~~~
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
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~~~~~
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    result = ImmediateResult(func)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>     return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __

```

```

call_
    return self.function(*args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _c
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _c
all_
    score = scorer._score(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _c
score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
proba
    Xt = transform.transform(Xt)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self.backend.apply_async(batch, callback=cb)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in

```

```

apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
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    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _ached_call
        result, _ = _get_response_values(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^

```

```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
                      ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
                   ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
                      ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
                   ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__

```

```

while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
    y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ^^^^^^^^^^

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    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
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    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    
```

```

job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
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apply_async
    result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
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    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
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    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
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et_response_values
    prediction_method = _check_response_method(estimator, response_method)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _
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    score = scorer._score(
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    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_-
proba
    Xt = transform.transform(Xt)
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ^^^^^^

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
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    self.results = batch()
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
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>   File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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        result, _ = _get_response_values(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
        y_pred = prediction_method(X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform(Xt)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__

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        return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
        result = ImmediateResult(func)
        ^^^^^^^^^^^^^^^^^^^^^^

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        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
        return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
        return [func(*args, **kwargs)
        ^^^^^^

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        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
        X_int, X_mask = self._transform(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _check_call
        result, _ = _get_response_values(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
        prediction_method = _check_response_method(estimator, response_method)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
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AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
        Xt = transform.transform(Xt)

```

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

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    Xs = self._fit_transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
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result, _ = _get_response_values(
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    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
        ^^^^^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)

```

```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
        prediction_method = _check_response_method(estimator, response_method)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
        raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _

```

```

_call_
    score = scorer._score(
        ~~~~~
        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
            y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
            ~~~~~
            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
                result, _ = _get_response_values(
                ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
                    y_pred = prediction_method(X)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
                    Xt = transform.transform(Xt)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
                    data_to_wrap = f(self, X, *args, **kwargs)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
                    Xs = self._fit_transform(
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
                    return Parallel(n_jobs=self.n_jobs)(
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
                    return super().__call__(iterable_with_config)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
                    while self.dispatch_one_batch(iterator):
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
                    self._dispatch(tasks)
                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
                        job = self._backend.apply_async(batch, callback=cb)
                        ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
                    result = ImmediateResult(func)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
                    self.results = batch()
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
                    return [func(*args, **kwargs)]
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
                    return [func(*args, **kwargs)]
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
                    return self.function(*args, **kwargs)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
                    res = transformer.transform(X)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
                    data_to_wrap = f(self, X, *args, **kwargs)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
                    X_int, X_mask = self._transform(
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
                    raise ValueError(msg)
                ValueError: Found unknown categories ['yes'] in column 0 during transform

                warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score

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```

y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
        ^^^^^^^^^^

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in __
score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __
ached_call
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            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __
et_response_values
    y_pred = prediction_method(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
proba
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            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
            ~~~~~
>   return [func(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo
rm_one
    res = transformer.transform(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

warnings.warn(

```

```
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __ached_call
    result, _ = _get_response_values(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo rm_one
    res = transformer.transform(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in __
score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __
get_response_values
    y_pred = prediction_method(X)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
_proba
    Xt = transform.transform(Xt)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __
call__
    return super().__call__(iterable_with_config)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1

```

```

016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __
score
    y_pred = method_caller(estimator, "predict", X)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __
ached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __
et_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in __
apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __
init__
    self.results = batch()
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __c
all__
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        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo
rm_one
    res = transformer.transform(X)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in __transform
    raise ValueError(msg)

```

```

ValueError: Found unknown categories ['yes'] in column 0 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
              ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
                      ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _call_
    score = scorer._score(
              ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
              ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
              ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                  ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
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          ^^^^
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          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
          ^^^^^^^^^^

```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
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    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
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_call_
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    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _
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    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped

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data_to_wrap = f(self, X, *args, **kwargs)
^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _c
all_
    score = scorer._score(
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _c
ore
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
proba
    Xt = transform.transform(Xt)
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>     return [func(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>     return [func(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
```

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call_
    return self.function(*args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _c
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _c
all_
    score = scorer._score(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _c
score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
proba
    Xt = transform.transform(Xt)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self.backend.apply_async(batch, callback=cb)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in

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apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
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    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
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        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
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        ^^^^^^
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    ^^^^^^
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    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^
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    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
                      ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
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    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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    prediction_method = _check_response_method(estimator, response_method)
                      ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

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    y_pred = prediction_method(X)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__

```

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while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
    ^^^^^^^^^^

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    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^

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    raise ValueError(msg)
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    score = scorer._score(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
    y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ^^^^^^^^^^

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    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    
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job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
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ached_call
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AttributeError: Pipeline has none of the following attributes: decision_function.

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    Xs = self._fit_transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
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        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
        y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _check_call
        result, _ = _get_response_values(
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
        Xt = transform.transform(Xt)

```

```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li

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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in __g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
call__
    score = scorer._score(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in __
score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call

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result, _ = _get_response_values(
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
        ^^^^^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)

```

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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    job = self._backend.apply_async(batch, callback=cb)
~~~~~
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    result = ImmediateResult(func)
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    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
~~~~~
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~~~~~
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    X_int, X_mask = self._transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
        prediction_method = _check_response_method(estimator, response_method)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
        raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _

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_call_
    score = scorer._score(
        ~~~~~
        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
            y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
            ~~~~~
            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
                result, _ = _get_response_values(
                ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
                    y_pred = prediction_method(X)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
                    Xt = transform.transform(Xt)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
                    data_to_wrap = f(self, X, *args, **kwargs)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
                    Xs = self._fit_transform(
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
                    return Parallel(n_jobs=self.n_jobs)(
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                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
                    return super().__call__(iterable_with_config)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
                    while self.dispatch_one_batch(iterator):
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
                    self._dispatch(tasks)
                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
                        job = self._backend.apply_async(batch, callback=cb)
                        ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
                    result = ImmediateResult(func)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
                    self.results = batch()
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
                    return [func(*args, **kwargs)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
                    return [func(*args, **kwargs)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
                    return self.function(*args, **kwargs)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
                    res = transformer.transform(X)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
                    data_to_wrap = f(self, X, *args, **kwargs)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
                    X_int, X_mask = self._transform(
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
                    raise ValueError(msg)
                ValueError: Found unknown categories ['yes'] in column 0 during transform

                warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score

```

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y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
        ^^^^^^^^^^

```

```
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in __score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _ached_call
    result, _ = _get_response_values(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
    y_pred = prediction_method(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
            ~~~~~
>   File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

  warnings.warn(
```

Results for knn:

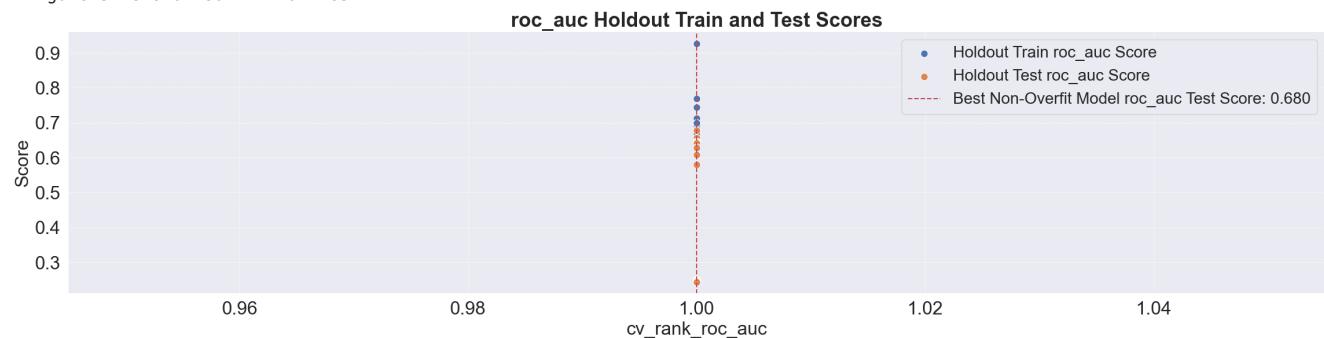
Models ranked by descending cv_rank_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_knn_algorithm
1	nan	No	0.668510	0.680160	0.736773	nan	nan	auto
1	nan	No	0.671150	0.677419	0.611070	nan	nan	brute
1	nan	Yes	0.667960	0.656269	0.729094	nan	nan	auto
1	nan	Yes	0.690964	0.646895	0.605675	nan	nan	auto

Models ranked by overfit status and descending holdout test_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_knn_algorithm
1	NaN	No	0.668510	0.680160	0.736773	NaN	NaN	auto
1	NaN	No	0.671150	0.677419	0.611070	NaN	NaN	brute
1	NaN	Yes	0.667960	0.656269	0.729094	NaN	NaN	auto
1	NaN	Yes	0.690964	0.646895	0.605675	NaN	NaN	auto

<Figure size 640x480 with 0 Axes>



Fitting 5 folds for each of 30 candidates, totalling 150 fits

```

/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __check_call
    result, _ = _get_response_values(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transform_one
    res = transformer.transform(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 106, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 109, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~

```

```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                   ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
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               ~~~~~
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    return [func(*args, **kwargs)]
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
               ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
               ~~~~~

```

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
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    warnings.warn(
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et_response_values

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y_pred = prediction_method(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision
function
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et_response_values
    y_pred = prediction_method(X)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
                   ^^^^^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
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           ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
           ^^^^^^^^^^^^^^

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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        score = scorer._score(
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        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
          ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
          ^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
          ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li

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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
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016, in transform
    X_int, X_mask = self._transform(
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ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)()

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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ValueError: Found unknown categories ['yes'] in column 0 during transform

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/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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        Xt = transform.transform(Xt)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
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  while self.dispatch_one_batch(iterator):
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
  self._dispatch(tasks)

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
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        result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
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        y_pred = method_caller(estimator, "predict", X)
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        result, _ = _get_response_values(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
            ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform.transform(Xt)
            ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
        Xs = self._fit_transform(
            ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
            ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
        return super().__call__(iterable_with_config)
            ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
            ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
        result = ImmediateResult(func)
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        self.results = batch()
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```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
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    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
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    Xt = transform.transform(Xt)
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    return Parallel(n_jobs=self.n_jobs)(
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wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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all__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
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~~~~~  
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1  
99, in _transform  
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    Xs = self._fit_transform(  
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        return Parallel(n_jobs=self.n_jobs)(  
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform  
        X_int, X_mask = self._transform(  
~~~~~  
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform  
        raise ValueError(msg)  
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    res = transformer.transform(X)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
```

```

_call_
    score = scorer._score(
        ~~~~~
        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
            y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ~~~~~
            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
                result, _ = _get_response_values(
                ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
                    y_pred = prediction_method(X)
                    ~~~~~
                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
                        Xt = transform.transform(Xt)
                        ~~~~~
                        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
                            data_to_wrap = f(self, X, *args, **kwargs)
                            ~~~~~
                            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
                                Xs = self._fit_transform(
                                ~~~~~
                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
                                    return Parallel(n_jobs=self.n_jobs)(
                                    ~~~~~
                                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
                                        return super().__call__(iterable_with_config)
                                        ~~~~~
                                        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
                                            while self.dispatch_one_batch(iterator):
                                            ~~~~~
                                            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
                                                self._dispatch(tasks)
                                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
                                                    job = self._backend.apply_async(batch, callback=cb)
                                                    ~~~~~
                                                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
                                                        result = ImmediateResult(func)
                                                        ~~~~~
                                                        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
                                                            self.results = batch()
                                                            ~~~~~
                                                            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
                                                                return [func(*args, **kwargs)]
                                                                ~~~~~
                                                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
                                                                return [func(*args, **kwargs)]
                                                                ~~~~~
                                                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
                                                                return self.function(*args, **kwargs)
                                                                ~~~~~
                                                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
                                                                res = transformer.transform(X)
                                                                ~~~~~
                                                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
                                                                    data_to_wrap = f(self, X, *args, **kwargs)
                                                                    ~~~~~
                                                                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
                                                                X_int, X_mask = self._transform(
                                                                ~~~~~
                                                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
                                                                raise ValueError(msg)
                                                                ValueError: Found unknown categories ['yes'] in column 0 during transform

                                                                warnings.warn(
                                                                /Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
                                                                Traceback (most recent call last):
                                                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
                                                                    score = scorer._score(
                                                                    ~~~~~
                                                                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score

```

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y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
            ^^^^^^

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
              ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                  ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
          ^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
          ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
          ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                  ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
              ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
              ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
              ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
              ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict

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Xt = transform.transform(Xt)
^^^^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                 ^^^^^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
          ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
          ^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
          ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
          ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
          ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
          ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                 ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
          ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
          ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
          ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
          ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
          ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li

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ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
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        Xt = transform.transform(Xt)
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    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__

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        return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
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        result = ImmediateResult(func)
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        return [func(*args, **kwargs)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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        X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
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        y_pred = prediction_method(X)
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        Xs = self._fit_transform(
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
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        while self.dispatch_one_batch(iterator):
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
        ^^^^^^

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one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
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ne 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
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all__
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        job = self._backend.apply_async(batch, callback=cb)
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    self.results = batch()
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>
    return [func(*args, **kwargs)
           ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
           ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
           ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 106, in transform
    X_int, X_mask = self._transform(
                      ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in score
    y_pred = method_caller(estimator, "predict", X)
               ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
           ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
          ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
           ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
           ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
                  ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>
    return [func(*args, **kwargs)
           ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
```

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        return self.function(*args, **kwargs)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
    rm_one
        res = transformer.transform(X)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
    wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
    016, in transform
        X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
    99, in _transform
        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _c
    all_
        score = scorer._score(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _s
core
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
        result, _ = _get_response_values(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
        y_pred = prediction_method(X)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_
function
    Xt = transform.transform(Xt)
    ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
        return super().__call__(iterable_with_config)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self.backend.apply_async(batch, callback=cb)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
        result = ImmediateResult(func)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
        self.results = batch()
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
        return [func(*args, **kwargs)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
        return [func(*args, **kwargs)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __c
all__
        return self.function(*args, **kwargs)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
        res = transformer.transform(X)

```

```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __cached_call
    result, _ = _get_response_values(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call_all_
    return super().__call__(iterable_with_config)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transform_one
    res = transformer.transform(X)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1

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016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __
ached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __
et_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_
function
    Xt = transform.transform(Xt)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __
call__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in __
apply_async
    result = ImmediateResult(func)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __
init__
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
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        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    >     return [func(*args, **kwargs)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
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rm_one
    res = transformer.transform(X)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform

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        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    y_pred = method_caller(estimator, "predict", X)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
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    Xs = self._fit_transform(
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __init__
    return Parallel(n_jobs=self.n_jobs)(
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    while self.dispatch_one_batch(iterator):
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __init__
    job = self._backend.apply_async(batch, callback=cb)
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    data_to_wrap = f(self, X, *args, **kwargs)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in __init__
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:

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Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
              ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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          ^^^^^^
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    X_int, X_mask = self._transform(
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ^^^^^^

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
    y_pred = method_caller(estimator, "predict", X)
              ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
              ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
          ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
          ^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
          ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
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                  ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call

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result, _ = _get_response_values(
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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    X_int, X_mask = self._transform(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch

```

```
job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
    ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

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ached_call
    result, _ = _get_response_values(
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et_response_values
    y_pred = prediction_method(X)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
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    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
    ^^^^^^
```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    score = scorer._score(
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__

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        return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>     return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
        return self.function(*args, **kwargs)
        ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
        res = transformer.transform(X)
        ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
        X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 109, in _transform
        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
        ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
        ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform(transform(Xt)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
        Xs = self._fit_transform(
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
        return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
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        result = ImmediateResult(func)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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        return [func(*args, **kwargs)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>     return [func(*args, **kwargs)
        ^^^^^^^^^^

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rm_one
    res = transformer.transform(X)
           ^^^^^^^^^^^^^^^^^^^^^^

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wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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016, in transform
    X_int, X_mask = self._transform(
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    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision
_function
    Xt = transform.transform(Xt)
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ne 816, in transform
    Xs = self._fit_transform(
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    return Parallel(n_jobs=self.n_jobs)(
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           ^^^^^^^^^^

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           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm
    X[...] = self.steps[-1][0].transform(X[...])
           ^^^^^^

```

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rm_one
    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
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    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo rm_one
    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)

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```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __g
et_response_values
    y_pred = prediction_method(X)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_
function
    Xt = transform.transform(Xt)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in __
apply_async
    result = ImmediateResult(func)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __
init__
    self.results = batch()
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo
rm_one
    res = transformer.transform(X)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __ached_call
    result, _ = _get_response_values(
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
           ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
           ^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
           ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo
rm_one
    res = transformer.transform(X)
           ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
           ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
```

```
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
              ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
              ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transform_one
    res = transformer.transform(X)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
```

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score = scorer._score(
    ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
    y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
    ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
    ^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
    ^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
    ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
call__
    score = scorer._score(
    ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
    ^^^^^^^^^^

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_
function
    Xt = transform.transform(Xt)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _w
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    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self.backend.apply_async(batch, callback=cb)
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apply_async
    result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
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    warnings.warn(
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        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
        ^^^^^^

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et_response_values
    y_pred = prediction_method(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
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        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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        result, _ = _get_response_values(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
        y_pred = prediction_method(X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
        ~~~~~

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```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
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    res = transformer.transform(X)
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    data_to_wrap = f(self, X, *args, **kwargs)
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    X_int, X_mask = self._transform(
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        result, _ = _get_response_values(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li

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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
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        ^^^^^^
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_function
    Xt = transform.transform(Xt)
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        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform

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        return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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    return super().__call__(iterable_with_config)
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    data_to_wrap = f(self, X, *args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
            ~~~~~

```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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        ~~~~~
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    return [func(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    >
    return [func(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch

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self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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    ^^^^^^
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
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    ^^^^^^^^^^^^^^^^^^
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    res = transformer.transform(X)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
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    score = scorer._score(
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async

```

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    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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    return [func(*args, **kwargs)
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    res = transformer.transform(X)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform()
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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        score = scorer._score(
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        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
        Xs = self._fit_transform(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
        result = ImmediateResult(func)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
        self.results = batch()
        ^^^^^^

```

```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
            ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
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    data_to_wrap = f(self, X, *args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
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    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform
warnings.warn(

```

Results for lgr:

Models ranked by descending cv_rank_roc_auc

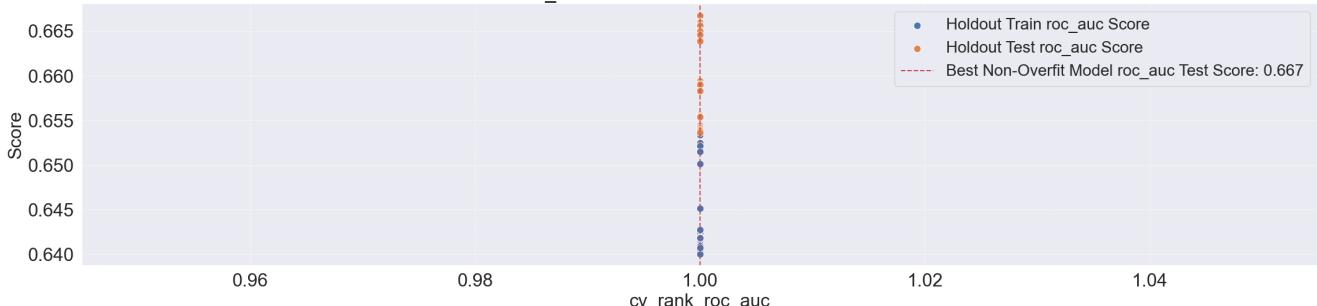
cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_lgr_C	param_lg
1	nan	No	0.653392	0.666755	0.605663	nan	nan	7.264803	0.380868
1	nan	No	0.652004	0.666099	0.585111	nan	nan	2.608060	0.380868
1	nan	No	0.651589	0.666016	0.608210	nan	nan	29.794545	0.1904
1	nan	No	0.651818	0.665974	0.667760	nan	nan	4.061137	0.253912

Models ranked by overfit status and descending holdout test_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_lgr_C	param_lg
1	NaN	No	0.653392	0.666755	0.605663	NaN	NaN	7.264803	0.380868
1	NaN	No	0.652004	0.666099	0.585111	NaN	NaN	2.608060	0.380868
1	NaN	No	0.651589	0.666016	0.608210	NaN	NaN	29.794545	0.1904
1	NaN	No	0.651818	0.665974	0.667760	NaN	NaN	4.061137	0.253912

<Figure size 640x480 with 0 Axes>

roc_auc Holdout Train and Test Scores



Fitting 5 folds for each of 30 candidates, totalling 150 fits

```

/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    score = scorer._score(
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    y_pred = method_caller(estimator, "predict", X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __check_call
    result, _ = _get_response_values(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
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    job = self._backend.apply_async(batch, callback=cb)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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    return self.function(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transform_one
    res = transformer.transform(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 106, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 109, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                   ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
               ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
               ~~~~~

```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
        ^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
call__
    score = scorer._score(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values

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y_pred = prediction_method(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision
function
- Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>     return [func(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
call__
    score = scorer._score(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __
score
    y_pred = method_caller(estimator, "predict", X)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __g
et_response_values
    y_pred = prediction_method(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
                   ^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
          ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
                   ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
           ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
          ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
          ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
          ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
          ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
          ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li

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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
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wrapped
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        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)()

```

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
~~~~~

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        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
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/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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        Xt = transform.transform(Xt)
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    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
  while self.dispatch_one_batch(iterator):
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  self._dispatch(tasks)
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  job = self._backend.apply_async(batch, callback=cb)
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  result = ImmediateResult(func)
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  X_int, X_mask = self._transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
  raise ValueError(msg)
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    y_pred = prediction_method(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
  return Parallel(n_jobs=self.n_jobs)(
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  while self.dispatch_one_batch(iterator):
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
  self._dispatch(tasks)

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
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    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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    Xt = transform.transform(Xt)
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    Xs = self._fit_transform(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async

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        result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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        y_pred = prediction_method(X)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform.transform(Xt)
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    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
                      ^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
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    Xt = transform.transform(Xt)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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        y_pred = method_caller(estimator, "predict", X)
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        y_pred = prediction_method(X)
            ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform.transform(Xt)
            ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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        Xs = self._fit_transform(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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        while self.dispatch_one_batch(iterator):
            ^^^^^^^^^^

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        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
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wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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    return Parallel(n_jobs=self.n_jobs)(
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    job = self._backend.apply_async(batch, callback=cb)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in __
apply_async
    result = ImmediateResult(func)
~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __
init__
    self.results = batch()
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
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    return self.function(*args, **kwargs)
~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo
rm_one
    res = transformer.transform(X)
~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

```

```
warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
            ^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transform_one
    res = transformer.transform(X)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
```

```

_call_
    score = scorer._score(
        ~~~~~
        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
            y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ~~~~~
            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
                result, _ = _get_response_values(
                ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
                    y_pred = prediction_method(X)
                    ~~~~~
                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
                        Xt = transform.transform(Xt)
                        ~~~~~
                        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
                            data_to_wrap = f(self, X, *args, **kwargs)
                            ~~~~~
                            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
                                Xs = self._fit_transform(
                                ~~~~~
                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
                                    return Parallel(n_jobs=self.n_jobs)(
                                    ~~~~~
                                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
                                        return super().__call__(iterable_with_config)
                                        ~~~~~
                                        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
                                            while self.dispatch_one_batch(iterator):
                                            ~~~~~
                                            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
                                                self._dispatch(tasks)
                                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
                                                    job = self._backend.apply_async(batch, callback=cb)
                                                    ~~~~~
                                                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
                                                        result = ImmediateResult(func)
                                                        ~~~~~
                                                        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
                                                            self.results = batch()
                                                            ~~~~~
                                                            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
                                                                return [func(*args, **kwargs)]
                                                                ~~~~~
                                                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
                                                                return [func(*args, **kwargs)]
                                                                ~~~~~
                                                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
                                                                return self.function(*args, **kwargs)
                                                                ~~~~~
                                                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
                                                                res = transformer.transform(X)
                                                                ~~~~~
                                                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
                                                                    data_to_wrap = f(self, X, *args, **kwargs)
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                                                                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
                                                                X_int, X_mask = self._transform(
                                                                ~~~~~
                                                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
                                                                raise ValueError(msg)
                                                                ValueError: Found unknown categories ['yes'] in column 0 during transform

                                                                warnings.warn(
                                                                /Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
                                                                Traceback (most recent call last):
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                                                                    score = scorer._score(
                                                                    ~~~~~
                                                                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score

```

```

y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
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        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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    res = transformer.transform(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
            ^^^^^^

```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
              ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                  ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
          ^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
          ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
          ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                  ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
              ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
              ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
              ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
              ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict

```

```

Xt = transform.transform(Xt)
^^^^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                 ^^^^^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
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    y_pred = prediction_method(X)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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ne 670, in _fit_transform
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    Xs = self._fit_transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__

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        return super().__call__(iterable_with_config)
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        X_int, X_mask = self._transform(
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        return Parallel(n_jobs=self.n_jobs)(
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    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ~~~~~

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
call__
        score = scorer._score(
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __
score
        y_pred = method_caller(estimator, "predict", X)
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
        result, _ = _get_response_values(
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __g
et_response_values
        y_pred = prediction_method(X)
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform.transform(Xt)
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
        Xs = self._fit_transform(
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
        return super().__call__(iterable_with_config)
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
        result = ImmediateResult(func)
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__

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    self.results = batch()
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^

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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>
    return [func(*args, **kwargs)
           ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
           ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
           ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 106, in transform
    X_int, X_mask = self._transform(
                      ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in score
    y_pred = method_caller(estimator, "predict", X)
              ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
          ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
                  ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>
    return [func(*args, **kwargs)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__

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        return self.function(*args, **kwargs)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
    rm_one
        res = transformer.transform(X)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
    wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
    016, in transform
        X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
    99, in _transform
        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _c
    all_
        score = scorer._score(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _s
core
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
        result, _ = _get_response_values(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
        y_pred = prediction_method(X)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_
function
    Xt = transform.transform(Xt)
    ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
        return super().__call__(iterable_with_config)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self.backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
        result = ImmediateResult(func)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
        self.results = batch()
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
        return [func(*args, **kwargs)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
        return [func(*args, **kwargs)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __c
all__
        return self.function(*args, **kwargs)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
        res = transformer.transform(X)

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __cached_call
    result, _ = _get_response_values(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call_all_
    return super().__call__(iterable_with_config)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transform_one
    res = transformer.transform(X)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1

```

```

016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __
ached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __
et_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_
function
    Xt = transform.transform(Xt)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
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    while self.dispatch_one_batch(iterator):
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
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    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
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apply_async
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    return [func(*args, **kwargs)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    >
    return [func(*args, **kwargs)
        ^^^^^^
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        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo
rm_one
    res = transformer.transform(X)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform

```

```

        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    score = scorer._score(
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
           ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __init__
    return Parallel(n_jobs=self.n_jobs)(
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __init__
    job = self._backend.apply_async(batch, callback=cb)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
           ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
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    return self.function(*args, **kwargs)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transform
    res = transformer.transform(X)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in __init__
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:

```

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Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __ached_call
    result, _ = _get_response_values(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in __transform
    Xs = self._fit_transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
            ~~~~~
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
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    return [func(*args, **kwargs)]
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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            ~~~~~
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            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfrom_one
    res = transformer.transform(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in __transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~

```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
    y_pred = method_caller(estimator, "predict", X)
    ~~~~~~
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    result, _ = _get_response_values(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
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    return Parallel(n_jobs=self.n_jobs)(
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    X_int, X_mask = self._transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
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        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ~~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call

```

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result, _ = _get_response_values(
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in

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wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
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    Xs = self._fit_transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform.transform(Xt)
           ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
        Xs = self._fit_transform(
           ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
           ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
           ^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
           ^^^^^^

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
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        while self.dispatch_one_batch(iterator):
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch

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job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
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    self.results = batch()
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
        ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
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ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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score
    y_pred = method_caller(estimator, "predict", X)
        ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __g
et_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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    X_int, X_mask = self._transform(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
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    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
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    Xt = transform.transform(Xt)
    ^^^^^^
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    data_to_wrap = f(self, X, *args, **kwargs)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
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    self.results = batch()
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__

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        return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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        res = transformer.transform(X)
        ^^^^^^^^^^^^^^^^^^

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        data_to_wrap = f(self, X, *args, **kwargs)
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        X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 109, in _transform
        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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        y_pred = method_caller(estimator, "predict", X)
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        result, _ = _get_response_values(
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        y_pred = prediction_method(X)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform(transform(Xt)
        ^^^^^^^^^^^^^^

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        return Parallel(n_jobs=self.n_jobs)(
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wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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    X_int, X_mask = self._transform(
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    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
           ^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __
ached_call
    result, _ = _get_response_values(
           ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __
et_response_values
    y_pred = prediction_method(X)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision
_function
    Xt = transform.transform(Xt)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __
call__
    return super().__call__(iterable_with_config)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
           ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm
    X[...] = self.steps[-1][0].transform(X[...])
           ^^^^^^

```

```

rm_one
    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo rm_one
    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)

```

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __g
et_response_values
    y_pred = prediction_method(X)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_
function
    Xt = transform.transform(Xt)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ~~~~~
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apply_async
    result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __
init__
    self.results = batch()
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
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    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo
rm_one
    res = transformer.transform(X)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~
```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    score = scorer._score(
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    y_pred = method_caller(estimator, "predict", X)
           ^^^^^^^^^^^^^^
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    result, _ = _get_response_values(
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
           ^^^^^^^^^^
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    return super().__call__(iterable_with_config)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
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           ^^^
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    return [func(*args, **kwargs)
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    return [func(*args, **kwargs)
           ^^^^^^
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo
rm_one
    res = transformer.transform(X)
           ^^^^^^
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    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
           ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(

```

```
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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            ~~~~~
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    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
              ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
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    return [func(*args, **kwargs)]
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
          ~~~~~
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    return self.function(*args, **kwargs)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transform_one
    res = transformer.transform(X)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
```

```

score = scorer._score(
    ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
    y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
    ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
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wrapped
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
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    warnings.warn(
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score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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```

```

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_
function
    Xt = transform.transform(Xt)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _g
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et_response_values
    y_pred = prediction_method(X)
        ^^^^^^

```

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        ~~~~~
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        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
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        ~~~~~
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    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
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        score = scorer._score(
            ~~~~~
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        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
        y_pred = prediction_method(X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
        ~~~~~

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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    while self.dispatch_one_batch(iterator):
~~~~~

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    result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
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    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
call__
    score = scorer._score(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __g
et_response_values
    y_pred = prediction_method(X)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_
function
    Xt = transform.transform(Xt)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform

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        return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
all_
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
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        result, _ = _get_response_values(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    >
    return [func(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch

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self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    score = scorer._score(
    ^^^^^^^^^^
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    y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async

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        result = ImmediateResult(func)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
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    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform()
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    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
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        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
        Xs = self._fit_transform(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
        result = ImmediateResult(func)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
        self.results = batch()
        ^^^^^^

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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           ~~~~~
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    res = transformer.transform(X)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
                      ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform
warnings.warn(

```

Results for lgr_saga_l1l2:

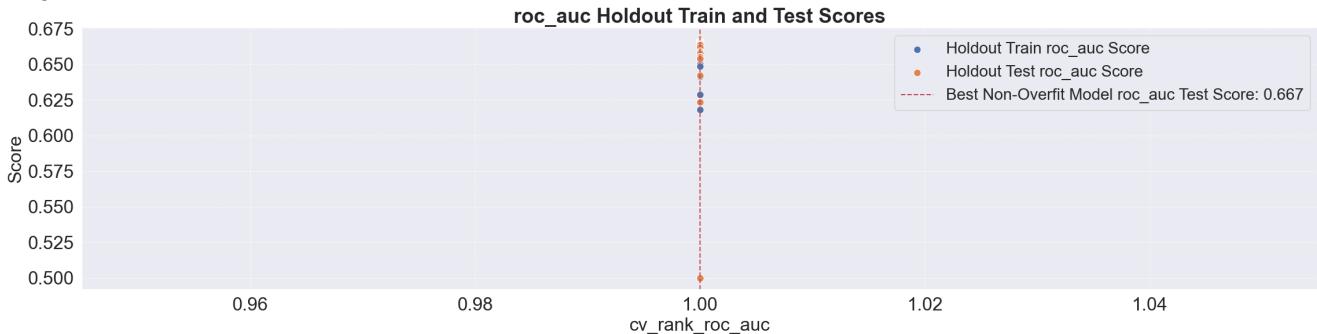
Models ranked by descending cv_rank_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_lgr_saga_l1l2_C
1	nan	No	0.651265	0.667465	0.708192	nan	nan	0.094570
1	nan	No	0.652654	0.667328	0.671926	nan	nan	0.190700
1	nan	No	0.653384	0.666814	0.681388	nan	nan	4.446629
1	nan	No	0.652046	0.666168	0.831256	nan	nan	85.987373

Models ranked by overfit status and descending holdout test_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_lgr_saga_l1l2_C
1	NaN	No	0.651265	0.667465	0.708192	NaN	NaN	0.09457
1	NaN	No	0.652654	0.667328	0.671926	NaN	NaN	0.1907
1	NaN	No	0.653384	0.666814	0.681388	NaN	NaN	4.446629
1	NaN	No	0.652046	0.666168	0.831256	NaN	NaN	85.987373

<Figure size 640x480 with 0 Axes>



Fitting 5 folds for each of 30 candidates, totalling 150 fits

```

/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __check_call
    result, _ = _get_response_values(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transform_one
    res = transformer.transform(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 106, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 109, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~

```

```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                   ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
               ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
               ~~~~~

```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
        ^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
call__
    score = scorer._score(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values

```

```

y_pred = prediction_method(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision
function
- Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>     return [func(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
call__
    score = scorer._score(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __
score
    y_pred = method_caller(estimator, "predict", X)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __g
et_response_values
    y_pred = prediction_method(X)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~

```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
                   ^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
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    res = transformer.transform(X)
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    data_to_wrap = f(self, X, *args, **kwargs)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ^^^^^^^^^^

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    y_pred = prediction_method(X)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li

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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
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wrapped
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        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
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        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)()

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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        ~~~~~
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    X_int, X_mask = self._transform(
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    raise ValueError(msg)
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        result, _ = _get_response_values(
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        Xt = transform.transform(Xt)
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            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
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    return Parallel(n_jobs=self.n_jobs)(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async

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        result = ImmediateResult(func)
        ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform.transform(Xt)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
        Xs = self._fit_transform(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
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ValueError: Found unknown categories ['yes'] in column 0 during transform

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        Xs = self._fit_transform(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
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    X_int, X_mask = self._transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
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    raise ValueError(msg)
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    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in __
apply_async
    result = ImmediateResult(func)
    ~~~~~
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init__
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo
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    res = transformer.transform(X)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~
```

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
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_call__
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    y_pred = prediction_method(X)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_
function
    Xt = transform.transform(Xt)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
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    return Parallel(n_jobs=self.n_jobs)(
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99, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

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```
warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    score = scorer._score(
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
            ^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transform_one
    res = transformer.transform(X)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
```

```

_call_
    score = scorer._score(
        ~~~~~
        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
            y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ~~~~~
            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
                result, _ = _get_response_values(
                ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
                    y_pred = prediction_method(X)
                    ~~~~~
                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
                        Xt = transform.transform(Xt)
                        ~~~~~
                        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
                            data_to_wrap = f(self, X, *args, **kwargs)
                            ~~~~~
                            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
                                Xs = self._fit_transform(
                                ~~~~~
                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
                                    return Parallel(n_jobs=self.n_jobs)(
                                    ~~~~~
                                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
                                        return super().__call__(iterable_with_config)
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                                        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
                                            while self.dispatch_one_batch(iterator):
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                                                    job = self._backend.apply_async(batch, callback=cb)
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                                                        result = ImmediateResult(func)
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                                                            self.results = batch()
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                                                            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
                                                                return [func(*args, **kwargs)]
                                                                ~~~~~
                                                                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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                                                                X_int, X_mask = self._transform(
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                                                                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score

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y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
              ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                  ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
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        y_pred = prediction_method(X)
              ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict

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Xt = transform.transform(Xt)
^^^^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
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    return [func(*args, **kwargs)
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    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
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    self._dispatch(tasks)
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    Xt = transform.transform(Xt)
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ne 670, in _fit_transform
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    warnings.warn(
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        return super().__call__(iterable_with_config)
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        y_pred = method_caller(estimator, "predict", X)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
        y_pred = prediction_method(X)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform.transform(Xt)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
        Xs = self._fit_transform(
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
        return super().__call__(iterable_with_config)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
        ^^^^^^

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one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>
    return [func(*args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ~~~~~

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
call__
        score = scorer._score(
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __
score
        y_pred = method_caller(estimator, "predict", X)
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
        result, _ = _get_response_values(
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __g
et_response_values
        y_pred = prediction_method(X)
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform.transform(Xt)
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
        Xs = self._fit_transform(
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
        return super().__call__(iterable_with_config)
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
        result = ImmediateResult(func)
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__

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    self.results = batch()
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
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        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>
    return [func(*args, **kwargs)
           ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
           ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
           ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 106, in transform
    X_int, X_mask = self._transform(
                      ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    score = scorer._score(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in score
    y_pred = method_caller(estimator, "predict", X)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
           ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
          ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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    Xs = self._fit_transform(
          ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
           ^^^^^^^^^^^^^^
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    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
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    job = self._backend.apply_async(batch, callback=cb)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
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           ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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    return [func(*args, **kwargs)
           ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
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        return self.function(*args, **kwargs)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
    rm_one
        res = transformer.transform(X)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
    wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
    016, in transform
        X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
    99, in _transform
        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

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ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _c
    all_
        score = scorer._score(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _s
core
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
        result, _ = _get_response_values(
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et_response_values
        y_pred = prediction_method(X)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_
function
    Xt = transform.transform(Xt)
    ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
        return super().__call__(iterable_with_config)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
        result = ImmediateResult(func)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
        self.results = batch()
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
        return [func(*args, **kwargs)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
        return [func(*args, **kwargs)
        ^^^^^^^^^^

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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
        res = transformer.transform(X)

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __cached_call
    result, _ = _get_response_values(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call_all_
    return super().__call__(iterable_with_config)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
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    self.results = batch()
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    return [func(*args, **kwargs)]
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transform_one
    res = transformer.transform(X)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1

```

```

016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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        ^^^^^^^^^^
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ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
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        ^^^^^^^^^^
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one_batch
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
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apply_async
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        ^^^^^^
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        ^^^^^^
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016, in transform
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        ^^^^^^
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99, in _transform

```

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        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
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    result, _ = _get_response_values(
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    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __init__
    return Parallel(n_jobs=self.n_jobs)(
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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    res = transformer.transform(X)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in __init__
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:

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    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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    X_int, X_mask = self._transform(
            ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ^^^^^^

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```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
    y_pred = method_caller(estimator, "predict", X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
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        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call

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result, _ = _get_response_values(
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
    ^^^^^^^^^^^^^^^^^^
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
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    Xs = self._fit_transform(
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    return Parallel(n_jobs=self.n_jobs)(
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~~~~~
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    X_int, X_mask = self._transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
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    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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        result, _ = _get_response_values(
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        y_pred = prediction_method(X)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in

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wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
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            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
        Xs = self._fit_transform(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
            ~~~~~

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
           ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
           ^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
           ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
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    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
           ^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
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        score = scorer._score(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
           ^^^^^^

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        result, _ = _get_response_values(
           ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
           ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform.transform(Xt)
           ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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           ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
        Xs = self._fit_transform(
           ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
        return super().__call__(iterable_with_config)
           ^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
           ^^^^^^

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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
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    return [func(*args, **kwargs)]
  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

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    score = scorer._score(
  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    
```

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job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^

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    res = transformer.transform(X)
        ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
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    y_pred = method_caller(estimator, "predict", X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __g
et_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
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    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
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    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__

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        return [func(*args, **kwargs)
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        ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
        X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 109, in _transform
        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
        ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
        ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform(transform(Xt)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
        Xs = self._fit_transform(
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
        return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
        result = ImmediateResult(func)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
        self.results = batch()
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
        return [func(*args, **kwargs)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>     return [func(*args, **kwargs)
        ^^^^^^^^^^

```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
           ^^^^^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
           ^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
           ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
           ^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __
ached_call
    result, _ = _get_response_values(
           ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __
et_response_values
    y_pred = prediction_method(X)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_
function
    Xt = transform.transform(Xt)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __
call__
    return super().__call__(iterable_with_config)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
           ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
           ^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm
    X[...] = self.steps[-1][0].transform(X[...])
           ^^^^^^

```

```

rm_one
    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo rm_one
    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)

```

```
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
    ~~~~~
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score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __g
et_response_values
    y_pred = prediction_method(X)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_
function
    Xt = transform.transform(Xt)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in __
apply_async
    result = ImmediateResult(func)
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    return [func(*args, **kwargs)]
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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rm_one
    res = transformer.transform(X)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~
```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

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/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    score = scorer._score(
           ^^^^^^^^^^^^^^
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    y_pred = method_caller(estimator, "predict", X)
           ^^^^^^^^^^^^^^
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    result, _ = _get_response_values(
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
           ^^^^^^^^^^
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    Xt = transform.transform(Xt)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
           ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
           ^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
           ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo
rm_one
    res = transformer.transform(X)
           ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
           ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(

```

```
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
              ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
              ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transform_one
    res = transformer.transform(X)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
```

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score = scorer._score(
    ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
    y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
    ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
    ^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
    ^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
    ^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
    ^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
call__
    score = scorer._score(
    ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
    ^^^^^^

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_
function
    Xt = transform.transform(Xt)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^^^^^^^^^
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apply_async
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        ^^^^^^
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
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    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
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ValueError: Found unknown categories ['yes'] in column 0 during transform

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all__
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        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in ___
score
    y_pred = method_caller(estimator, "predict", X)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values

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et_response_values
    y_pred = prediction_method(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
        y_pred = prediction_method(X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
        ~~~~~

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li

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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
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    return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
call__
    score = scorer._score(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __g
et_response_values
    y_pred = prediction_method(X)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision
_function
    Xt = transform.transform(Xt)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform

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        return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
all_
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 106, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^

```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    >
    return [func(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch

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self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
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    return self.function(*args, **kwargs)
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    res = transformer.transform(X)
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    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
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    raise ValueError(msg)
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/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    score = scorer._score(
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async

```

```
result = ImmediateResult(func)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
                ~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform()
                    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
               ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
                   ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
                   ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
                   ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
               ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
                   ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
        Xs = self._fit_transform(
               ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
               ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
        return super().__call__(iterable_with_config)
               ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
               ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
               ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
        result = ImmediateResult(func)
               ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
        self.results = batch()
```

```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
           ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
           ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
           ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
                      ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform
warnings.warn(

```

Results for lgr_saga_elastic:

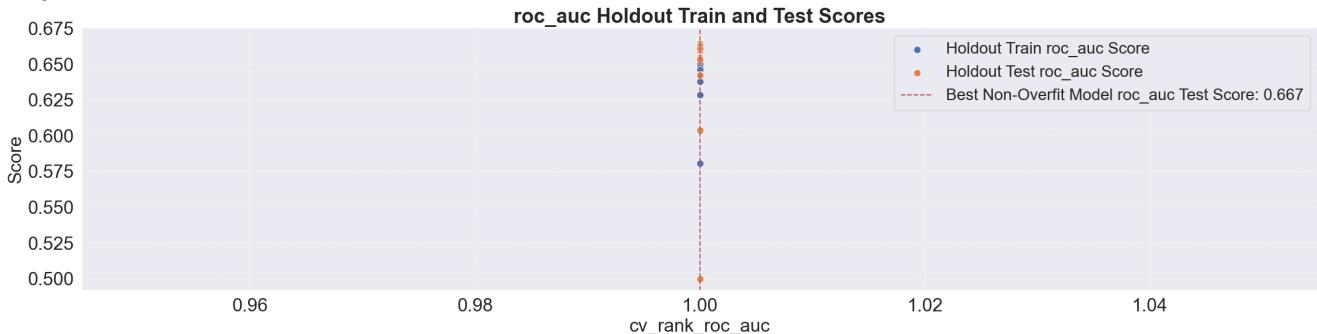
Models ranked by descending cv_rank_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_lgr_saga_elastic_
1	nan	No	0.652486	0.667181	0.701208	nan	nan	0.0945
1	nan	No	0.653009	0.666867	0.672400	nan	nan	0.1907
1	nan	No	0.653380	0.666761	0.725966	nan	nan	4.4466
1	nan	No	0.652843	0.666704	0.701474	nan	nan	0.1978

Models ranked by overfit status and descending holdout test_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_lgr_saga_elastic_
1	NaN	No	0.652486	0.667181	0.701208	NaN	NaN	0.094
1	NaN	No	0.653009	0.666867	0.672400	NaN	NaN	0.19
1	NaN	No	0.653380	0.666761	0.725966	NaN	NaN	4.4466
1	NaN	No	0.652843	0.666704	0.701474	NaN	NaN	0.1978

<Figure size 640x480 with 0 Axes>



Fitting 5 folds for each of 30 candidates, totalling 150 fits

```

/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __check_call
    result, _ = _get_response_values(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transform_one
    res = transformer.transform(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 106, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 109, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)

```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in __
score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
_proba
    Xt = transform.transform(Xt)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __
call__
    return super().__call__(iterable_with_config)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1

```

```

016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __
score
    y_pred = method_caller(estimator, "predict", X)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __
ached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __
et_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in __
apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __
init__
    self.results = batch()
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __c
all__
    return self.function(*args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo
rm_one
    res = transformer.transform(X)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in __transform
    raise ValueError(msg)

```

```

ValueError: Found unknown categories ['yes'] in column 0 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
              ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
                      ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _score
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              ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
              ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                  ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^^^^^
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    result = ImmediateResult(func)
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```

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
           ^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
           ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
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    raise ValueError(msg)
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    y_pred = method_caller(estimator, "predict", X)
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ached_call
    result, _ = _get_response_values(
           ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
           ^^^^^^^^^^

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ne 816, in transform
    Xs = self._fit_transform(
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
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    while self.dispatch_one_batch(iterator):
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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           ^^^^^^^^^^

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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped

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data_to_wrap = f(self, X, *args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
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AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

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        ^^^^^^
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        ^^^^^^
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    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
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    return super().__call__(iterable_with_config)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_-
one_batch
    self._dispatch(tasks)
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    self.results = batch()
        ^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)

```

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>     return [func(*args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
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    result, _ = _get_response_values()
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __

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call_
    return self.function(*args, **kwargs)
    ~~~~~
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    result, _ = _get_response_values(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
proba
    Xt = transform.transform(Xt)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self.backend.apply_async(batch, callback=cb)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in

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apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
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    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _ached_call
        result, _ = _get_response_values(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^

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```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
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    X_int, X_mask = self._transform(
                      ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
                   ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
                      ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
                   ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
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                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__

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while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
    y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ^^^^^^^^^^

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    data_to_wrap = f(self, X, *args, **kwargs)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
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    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    
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job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
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AttributeError: Pipeline has none of the following attributes: decision_function.

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    data_to_wrap = f(self, X, *args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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    self.results = batch()
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ~~~~~
> File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
        y_pred = prediction_method(X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform(Xt)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
```

```

        return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
        result = ImmediateResult(func)
        ^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
        self.results = batch()
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
        return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
        return [func(*args, **kwargs)
        ^^^^^^

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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
        res = transformer.transform(X)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
        X_int, X_mask = self._transform(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _check_call
        result, _ = _get_response_values(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
        prediction_method = _check_response_method(estimator, response_method)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
        raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
        y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _check_call
        result, _ = _get_response_values(
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
        Xt = transform.transform(Xt)

```

```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
~~~~~

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
~~~~~

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
~~~~~

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
~~~~~

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform.transform(Xt)
~~~~~

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li

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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^
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rm_one
    res = transformer.transform(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in __g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
call__
    score = scorer._score(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in __
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    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^
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ached_call

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result, _ = _get_response_values(
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
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    Xt = transform.transform(Xt)
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    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^
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    return [func(*args, **kwargs)]
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
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        result, _ = _get_response_values(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)

```

```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
        prediction_method = _check_response_method(estimator, response_method)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
        raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _

```

```

_call_
    score = scorer._score(
        ~~~~~
        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
            y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
            ~~~~~
            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
                result, _ = _get_response_values(
                ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
                    y_pred = prediction_method(X)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
                    Xt = transform.transform(Xt)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
                    data_to_wrap = f(self, X, *args, **kwargs)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
                    Xs = self._fit_transform(
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
                    return Parallel(n_jobs=self.n_jobs)(
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
                    return super().__call__(iterable_with_config)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
                    while self.dispatch_one_batch(iterator):
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
                    self._dispatch(tasks)
                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
                        job = self._backend.apply_async(batch, callback=cb)
                        ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
                    result = ImmediateResult(func)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
                    self.results = batch()
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
                    return [func(*args, **kwargs)]
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
                    return [func(*args, **kwargs)]
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
                    return self.function(*args, **kwargs)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
                    res = transformer.transform(X)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
                    data_to_wrap = f(self, X, *args, **kwargs)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
                    X_int, X_mask = self._transform(
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
                    raise ValueError(msg)
                ValueError: Found unknown categories ['yes'] in column 0 during transform

                warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score

```

```

y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
        ^^^^^^^^^^

```

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in __
score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __
ached_call
    result, _ = _get_response_values(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __
et_response_values
    y_pred = prediction_method(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
proba
    Xt = transform.transform(Xt)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
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apply_async
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            ~~~~~
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wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

warnings.warn(

```

```

/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    score = scorer._score(
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    y_pred = method_caller(estimator, "predict", X)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
            ~~~~~
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    while self.dispatch_one_batch(iterator):
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo rm_one
    res = transformer.transform(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)

```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in __
score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __
get_response_values
    y_pred = prediction_method(X)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
_proba
    Xt = transform.transform(Xt)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __
call__
    return super().__call__(iterable_with_config)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1

```

```

016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __
score
    y_pred = method_caller(estimator, "predict", X)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __
ached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __
et_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in __
apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __
init__
    self.results = batch()
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __c
all__
    return self.function(*args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo
rm_one
    res = transformer.transform(X)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in __transform
    raise ValueError(msg)

```

```

ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
              ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
                      ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _score
    score = scorer._score(
              ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
              ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
              ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                  ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
          ^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
          ^^^^^^

```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _
_call_
    score = scorer._score(
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _
score
    y_pred = method_caller(estimator, "predict", X)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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apply_async
    result = ImmediateResult(func)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ~~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped

```

```

data_to_wrap = f(self, X, *args, **kwargs)
^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
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warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^~~~~~
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ached_call
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _c
all_
    score = scorer._score(
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _c
ore
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
proba
    Xt = transform.transform(Xt)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>     return [func(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>     return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __

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call_
    return self.function(*args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _c
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _c
all_
    score = scorer._score(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _c
score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
proba
    Xt = transform.transform(Xt)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self.backend.apply_async(batch, callback=cb)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in

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apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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        ^^^^^^^^^^
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        y_pred = method_caller(estimator, "predict", X)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _ached_call
        result, _ = _get_response_values(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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    self.results = batch()
    ^^^^^^

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
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           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
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ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
                   ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
                      ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
                   ~~~~~
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    result, _ = _get_response_values(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
          ~~~~~
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    data_to_wrap = f(self, X, *args, **kwargs)
                   ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__

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while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
        result = ImmediateResult(func)
    ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
        self.results = batch()
    ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
        return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
        return [func(*args, **kwargs)
    ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
        return self.function(*args, **kwargs)
    ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
        res = transformer.transform(X)
    ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
        X_int, X_mask = self._transform(
    ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
    ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
    ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
    ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform.transform(Xt)
    ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
        Xs = self._fit_transform(
    ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
        return super().__call__(iterable_with_config)
    ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
    ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch

```

```
job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
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    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
    ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
    ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^
```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ~~~~~
> File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
        y_pred = prediction_method(X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform(Xt)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~

```

```

        return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
        result = ImmediateResult(func)
        ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
        self.results = batch()
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
        return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
        return [func(*args, **kwargs)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
        return self.function(*args, **kwargs)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
        res = transformer.transform(X)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
        X_int, X_mask = self._transform(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _check_call
        result, _ = _get_response_values(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
        prediction_method = _check_response_method(estimator, response_method)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
        raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
        y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
        ^^^^^^^^^^

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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
        Xt = transform.transform(Xt)

```

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
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    result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li

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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in __g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
call__
    score = scorer._score(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in __
score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call

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result, _ = _get_response_values(
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
        ^^^^^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)

```

```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
        prediction_method = _check_response_method(estimator, response_method)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
        raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _

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_call_
    score = scorer._score(
        ~~~~~
        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
            y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
            ~~~~~
            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
                result, _ = _get_response_values(
                ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
                    y_pred = prediction_method(X)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
                    Xt = transform.transform(Xt)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
                    data_to_wrap = f(self, X, *args, **kwargs)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
                    Xs = self._fit_transform(
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
                    return Parallel(n_jobs=self.n_jobs)(
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                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
                        job = self._backend.apply_async(batch, callback=cb)
                        ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
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                ValueError: Found unknown categories ['yes'] in column 0 during transform

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        score = scorer._score(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score

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```

y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
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    Xt = transform.transform(Xt)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
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    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
        ^^^^^^^^^^

```

```

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in __
score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __
ached_call
    result, _ = _get_response_values(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __
et_response_values
    y_pred = prediction_method(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
proba
    Xt = transform.transform(Xt)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
            ~~~~~
>   return [func(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
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    return self.function(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo
rm_one
    res = transformer.transform(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

warnings.warn(

```

```

/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __ached_call
    result, _ = _get_response_values(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo rm_one
    res = transformer.transform(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)

```

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _g
et_response_values
    prediction_method = _check_response_method(estimator, response_method)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in __
score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
_proba
    Xt = transform.transform(Xt)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __
call__
    return super().__call__(iterable_with_config)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
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__init__
    self.results = batch()
    ~~~~~
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    return [func(*args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
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    return self.function(*args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1

```

```

016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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_call__
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ached_call
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        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^^^^^
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ne 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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    self._dispatch(tasks)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^^^^^
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        ^^^^^^^^^^
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
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        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in __transform
    raise ValueError(msg)

```

```

ValueError: Found unknown categories ['yes'] in column 0 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
              ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
                      ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _score
    score = scorer._score(
              ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
              ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                  ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
          ^^^^^^
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    self.results = batch()
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
           ^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
           ^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
           ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
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_call_
    score = scorer._score(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _
score
    y_pred = method_caller(estimator, "predict", X)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
           ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
           ^^^^^^^^^^

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__init__
    self.results = batch()
           ^^^^^^

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    return [func(*args, **kwargs)
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
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rm_one
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           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped

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data_to_wrap = f(self, X, *args, **kwargs)
^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
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        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
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et_response_values
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        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
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    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _c
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        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
proba
    Xt = transform.transform(Xt)
        ^~~~~~
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wrapped
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ne 816, in transform
    Xs = self._fit_transform(
        ^~~~~~
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    return Parallel(n_jobs=self.n_jobs)(
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
        ^~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>     return [func(*args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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        score = scorer._score()
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    result, _ = _get_response_values()
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
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    Xt = transform.transform(Xt)
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>     return [func(*args, **kwargs)]
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __

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call_
    return self.function(*args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
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    prediction_method = _check_response_method(estimator, response_method)
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    raise AttributeError()
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    y_pred = prediction_method(X)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_
proba
    Xt = transform.transform(Xt)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self.backend.apply_async(batch, callback=cb)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in

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apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
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    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^
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    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
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        y_pred = method_caller(estimator, "predict", X)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _ached_call
        result, _ = _get_response_values(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
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    Xs = self._fit_transform(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^

```

```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
           ~~~~~
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
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                      ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
                   ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
                      ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
                   ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
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                  ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__

```

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while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
    y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ^^^^^^^^^^

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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
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    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    
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job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
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    data_to_wrap = f(self, X, *args, **kwargs)
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ne 816, in transform
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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    return [func(*args, **kwargs)
        ~~~~~
> File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
        y_pred = prediction_method(X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform(Xt)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~

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        return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
        result = ImmediateResult(func)
        ^^^^^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
        self.results = batch()
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
        return [func(*args, **kwargs)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
        return [func(*args, **kwargs)
        ^^^^^^

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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
        res = transformer.transform(X)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
        X_int, X_mask = self._transform(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _check_call
        result, _ = _get_response_values(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
        prediction_method = _check_response_method(estimator, response_method)
        ^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
        raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
        y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _check_call
        result, _ = _get_response_values(
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
        Xt = transform.transform(Xt)

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li

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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
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        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in __g
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    prediction_method = _check_response_method(estimator, response_method)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in
_check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
call__
    score = scorer._score(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in __
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    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
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ached_call

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result, _ = _get_response_values(
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
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    warnings.warn(
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        y_pred = method_caller(estimator, "predict", X)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)

```

```

~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
        prediction_method = _check_response_method(estimator, response_method)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
        raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _

```

```

_call_
    score = scorer._score(
        ~~~~~
        File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in _score
            y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
            ~~~~~
            File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
                result, _ = _get_response_values(
                ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
                    y_pred = prediction_method(X)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
                    Xt = transform.transform(Xt)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
                    data_to_wrap = f(self, X, *args, **kwargs)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
                    Xs = self._fit_transform(
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
                    return Parallel(n_jobs=self.n_jobs)(
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
                    return super().__call__(iterable_with_config)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
                    while self.dispatch_one_batch(iterator):
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
                    self._dispatch(tasks)
                    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
                        job = self._backend.apply_async(batch, callback=cb)
                        ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
                    result = ImmediateResult(func)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
                    self.results = batch()
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
                    return [func(*args, **kwargs)]
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
                    return [func(*args, **kwargs)]
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
                    return self.function(*args, **kwargs)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
                    res = transformer.transform(X)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
                    data_to_wrap = f(self, X, *args, **kwargs)
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
                    X_int, X_mask = self._transform(
                    ~~~~~
                File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
                    raise ValueError(msg)
                ValueError: Found unknown categories ['yes'] in column 0 during transform

                warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score

```

```

y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 73, in _get_response_values
    prediction_method = _check_response_method(estimator, response_method)
        ^^^^^^^^^^

```

```
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/validation.py", line 1940, in _check_response_method
    raise AttributeError()
AttributeError: Pipeline has none of the following attributes: decision_function.

During handling of the above exception, another exception occurred:

Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 466, in __score
    y_pred = method_caller(clf, "predict_proba", X, pos_label=pos_label)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _ached_call
    result, _ = _get_response_values(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
    y_pred = prediction_method(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 577, in predict_proba
    Xt = transform.transform(Xt)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
            ~~~~~
>   File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

  warnings.warn(
```

Results for dtree:

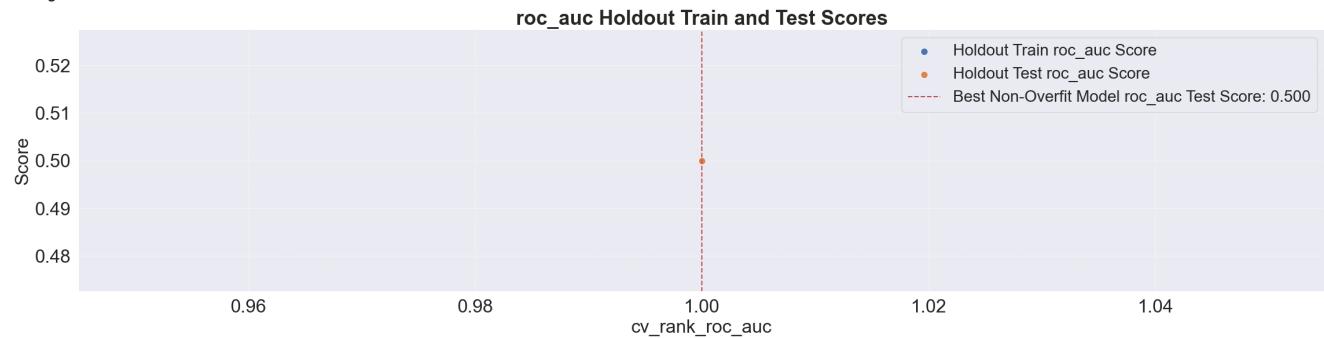
Models ranked by descending cv_rank_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_dtrees_ccp_alpha
1	nan	No	0.500000	0.500000	0.674100	nan	nan	0.018727
1	nan	No	0.500000	0.500000	0.655940	nan	nan	0.030056
1	nan	No	0.500000	0.500000	0.526328	nan	nan	0.030874
1	nan	No	0.500000	0.500000	0.522511	nan	nan	0.022803

Models ranked by overfit status and descending holdout test_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_dtrees_ccp_alpha
1	NaN	No	0.5	0.5	0.674100	NaN	NaN	0.018727
1	NaN	No	0.5	0.5	0.655940	NaN	NaN	0.030056
1	NaN	No	0.5	0.5	0.526328	NaN	NaN	0.030874
1	NaN	No	0.5	0.5	0.522511	NaN	NaN	0.022803

<Figure size 640x480 with 0 Axes>



Fitting 5 folds for each of 30 candidates, totalling 150 fits

```

/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __check_call
    result, _ = _get_response_values(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transform_one
    res = transformer.transform(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 106, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 109, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                   ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
               ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
               ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
               ~~~~~

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
        ^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
call__
    score = scorer._score(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values

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y_pred = prediction_method(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision
function
- Xt = transform.transform(Xt)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>     return [func(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
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    return self.function(*args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
call__
    score = scorer._score(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __
score
    y_pred = method_caller(estimator, "predict", X)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __g
et_response_values
    y_pred = prediction_method(X)
~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
                   ^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
          ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
                   ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
           ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
          ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
          ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
          ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
          ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
          ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li

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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
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        ^^^^^^^^^^^^^^^^^^
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    job = self._backend.apply_async(batch, callback=cb)
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apply_async
    result = ImmediateResult(func)
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__init__
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        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
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        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
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    return self.function(*args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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call__
    score = scorer._score(
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        ^^^^^^^^^^
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et_response_values
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        ^^^^^^
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)()

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
~~~~~

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ~~~~~
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        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ~~~~~
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            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
  while self.dispatch_one_batch(iterator):
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
  self._dispatch(tasks)
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  job = self._backend.apply_async(batch, callback=cb)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
  result = ImmediateResult(func)
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    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
  >
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  res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
  data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
  X_int, X_mask = self._transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
  raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    score = scorer._score(
      ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
    y_pred = method_caller(estimator, "predict", X)
      ~~~~~
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    result, _ = _get_response_values(
      ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
      ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
      ~~~~~
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
  Xs = self._fit_transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
  return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
  while self.dispatch_one_batch(iterator):
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
  self._dispatch(tasks)

```

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ~~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
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    return [func(*args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
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    X_int, X_mask = self._transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
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    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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    result, _ = _get_response_values(
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    y_pred = prediction_method(X)
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    Xt = transform.transform(Xt)
          ~~~~~
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    return Parallel(n_jobs=self.n_jobs)(
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    job = self._backend.apply_async(batch, callback=cb)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async

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        result = ImmediateResult(func)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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    res = transformer.transform(X)
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    data_to_wrap = f(self, X, *args, **kwargs)
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    X_int, X_mask = self._transform(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
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        y_pred = method_caller(estimator, "predict", X)
        ^^^^^^^^^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _ached_call
        result, _ = _get_response_values(
        ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform.transform(Xt)
        ^^^^^^

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        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
        Xs = self._fit_transform(
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
        return super().__call__(iterable_with_config)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
        result = ImmediateResult(func)
        ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
        self.results = batch()
        ^^^^^^

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
                      ^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    score = scorer._score(
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    result, _ = _get_response_values(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
           ^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
           ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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    Xs = self._fit_transform(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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           ^^^^^^^^^^^

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        return [func(*args, **kwargs)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
        X_int, X_mask = self._transform(
            ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
        raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

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            ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
            ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
            ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
            ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform.transform(Xt)
            ^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
        Xs = self._fit_transform(
            ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
            ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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        while self.dispatch_one_batch(iterator):
            ^^^^^^^^^^

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
        result = ImmediateResult(func)
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        return [func(*args, **kwargs)
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    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
           ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
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    ~~~~~
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values  
        y_pred = prediction_method(X)  
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function  
    Xt = transform.transform(Xt)  
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped  
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform  
    Xs = self._fit_transform(  
~~~~~  
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform  
        return Parallel(n_jobs=self.n_jobs)(  
~~~~~  
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__  
    return super().__call__(iterable_with_config)  
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__  
        while self.dispatch_one_batch(iterator):  
~~~~~  
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch  
        self._dispatch(tasks)  
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch  
        job = self._backend.apply_async(batch, callback=cb)  
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async  
        result = ImmediateResult(func)  
~~~~~  
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__  
        self.results = batch()  
~~~~~  
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__  
        return [func(*args, **kwargs)]  
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>  
        return [func(*args, **kwargs)]  
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one  
        res = transformer.transform(X)  
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~~~~~  
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform  
        X_int, X_mask = self._transform(  
~~~~~  
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform  
        raise ValueError(msg)  
ValueError: Found unknown categories ['yes'] in column 0 during transform
```

```
warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/svm/_base.py:297: ConvergenceWarning: Solve
r terminated early (max_iter=20000). Consider pre-processing your data with StandardScaler or MinMaxScaler.
    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __
score
    y_pred = method_caller(estimator, "predict", X)
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et_response_values
    y_pred = prediction_method(X)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
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            ~~~~~
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
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one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
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rm_one
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            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in __transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
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```

ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
              ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
          ^^^^^^^^^^^^^^
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ^^^^^^^^^^^^^^
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    while self.dispatch_one_batch(iterator):
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/svm/_base.py:297: ConvergenceWarning: Solver terminated early (max_iter=20000). Consider pre-processing your data with StandardScaler or MinMaxScaler.
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/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):

```

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
    y_pred = method_caller(estimator, "predict", X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score

```

```

y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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    data_to_wrap = f(self, X, *args, **kwargs)
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    return Parallel(n_jobs=self.n_jobs)(
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/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/svm/_base.py:297: ConvergenceWarning: Solver terminated early (max_iter=20000). Consider pre-processing your data with StandardScaler or MinMaxScaler.
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Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
^~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _

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score
    y_pred = method_caller(estimator, "predict", X)
        ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _call_
        result, _ = _get_response_values(
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        y_pred = prediction_method(X)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform.transform(Xt)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
        Xs = self._fit_transform(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
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        self._dispatch(tasks)
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        return [func(*args, **kwargs)
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        res = transformer.transform(X)
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            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
        X_int, X_mask = self._transform(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
        raise ValueError(msg)
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    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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            ~~~~~

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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    Xs = self._fit_transform(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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    X_int, X_mask = self._transform(
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        result, _ = _get_response_values(
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    X_int, X_mask = self._transform(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
        ~~~~~

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~~~~~
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    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li

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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
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    res = transformer.transform(X)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
call__
    score = scorer._score(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __g
et_response_values
    y_pred = prediction_method(X)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision
_function
    Xt = transform.transform(Xt)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform

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        return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
all_
    return super().__call__(iterable_with_config)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
            ~~~~~

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    >
    return [func(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch

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self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    score = scorer._score(
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async

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        result = ImmediateResult(func)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
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    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
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    X_int, X_mask = self._transform()
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    raise ValueError(msg)
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    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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        score = scorer._score(
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
        Xs = self._fit_transform(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
        return super().__call__(iterable_with_config)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
        result = ImmediateResult(func)
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    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
        self.results = batch()
        ^^^^^^

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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    return self.function(*args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
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    data_to_wrap = f(self, X, *args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
                      ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
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    Xt = transform.transform(Xt)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self.backend.apply_async(batch, callback=cb)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp
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           ^^^^^^^^^^^^^^

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99, in _transform
    raise ValueError(msg)
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ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
           ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
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    while self.dispatch_one_batch(iterator):
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one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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    return [func(*args, **kwargs)
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res = transformer.transform(X)
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    return Parallel(n_jobs=self.n_jobs)(
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    return super().__call__(iterable_with_config)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in __
apply_async
    result = ImmediateResult(func)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __
init__
    self.results = batch()
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo

```

```

rm_one
    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __cached_call
    result, _ = _get_response_values(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfrom_
rm_one
    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped

```

```

data_to_wrap = f(self, X, *args, **kwargs)
^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/svm/_base.py:297: ConvergenceWarning: Solve
r terminated early (max_iter=20000). Consider pre-processing your data with StandardScaler or MinMaxScaler.
    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _
_call_
    score = scorer._score(
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _
score
    y_pred = method_caller(estimator, "predict", X)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
__init__
    self.results = batch()
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1

```

```

016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __
_call__
    score = scorer._score(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __
score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __
ached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __
et_response_values
    y_pred = prediction_method(X)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_
function
    Xt = transform.transform(Xt)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __
call__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in __
apply_async
    result = ImmediateResult(func)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __
init__
    self.results = batch()
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    >
    return [func(*args, **kwargs)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __
call__
    return self.function(*args, **kwargs)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfo
rm_one
    res = transformer.transform(X)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform

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    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/svm/_base.py:297: ConvergenceWarning: Solver terminated early (max_iter=20000). Consider pre-processing your data with StandardScaler or MinMaxScaler.
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    score = scorer._score(
            ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
    y_pred = method_caller(estimator, "predict", X)
            ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
            ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
            ^^^^^^^^^^
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            ^^^
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    return [func(*args, **kwargs)
            ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
            ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
            ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
            ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
            ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform
```

```
warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _ached_call
    result, _ = _get_response_values(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
    y_pred = prediction_method(X)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
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    return self.function(*args, **kwargs)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
            ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/svm/_base.py:297: ConvergenceWarning: Solver terminated early (max_iter=20000). Consider pre-processing your data with StandardScaler or MinMaxScaler.
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_call__
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    y_pred = method_caller(estimator, "predict", X)
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      ~~~~~
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et_response_values
    y_pred = prediction_method(X)
      ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
      ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
      ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
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    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
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      ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
      ~~~~~
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    score = scorer._score(
            ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
              ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
              ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
          ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
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    Xs = self._fit_transform(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^
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    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
          ^^^^^^^^^^
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          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
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    score = scorer._score(
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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
    y_pred = method_caller(estimator, "predict", X)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in _wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
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    while self.dispatch_one_batch(iterator):
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~

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    return [func(*args, **kwargs)]
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
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    warnings.warn(
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c

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ached_call
    result, _ = _get_response_values(
        ^^^^^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
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        return Parallel(n_jobs=self.n_jobs)(
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/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/svm/_base.py:297: ConvergenceWarning: Solver terminated early (max_iter=20000). Consider pre-processing your data with StandardScaler or MinMaxScaler.
    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
        y_pred = method_caller(estimator, "predict", X)
            ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _ached_call
        result, _ = _get_response_values(
            ^^^^^^^^^^

```

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)]
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
~~~~~

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
~~~~~

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _ached_call
        result, _ = _get_response_values(
~~~~~

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
~~~~~

    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision

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function
  Xt = transform.transform(Xt)
  ^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/svm/_base.py:297: ConvergenceWarning: Solver terminated early (max_iter=2000). Consider pre-processing your data with StandardScaler or MinMaxScaler.
  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
    y_pred = method_caller(estimator, "predict", X)
    ^^^^^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
    ^^^^^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ^^^^^^^^^^^^^^^^^^

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
                   ^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
          ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
                   ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
           ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
          ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
          ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
          ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
    score = scorer._score(
          ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
          ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
          ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
          ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li

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ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
        ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in
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    self.results = batch()
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
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rm_one
    res = transformer.transform(X)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
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r terminated early (max_iter=2000). Consider pre-processing your data with StandardScaler or MinMaxScaler.
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ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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_call__
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        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __
score
    y_pred = method_caller(estimator, "predict", X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __c
ached_call
    result, _ = _get_response_values(
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __g
et_response_values
    y_pred = prediction_method(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
        ^^^^^^

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ~~~~~
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    return [func(*args, **kwargs)
        ~~~~~
> File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in get_response_values
        y_pred = prediction_method(X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__

```

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all_
    return super().__call__(iterable_with_config)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
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    res = transformer.transform(X)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
        ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/svm/_base.py:297: ConvergenceWarning: Solve r terminated early (max_iter=20000). Consider pre-processing your data with StandardScaler or MinMaxScaler.
    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/svm/_base.py:297: ConvergenceWarning: Solve r terminated early (max_iter=20000). Consider pre-processing your data with StandardScaler or MinMaxScaler.
    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/svm/_base.py:297: ConvergenceWarning: Solve r terminated early (max_iter=20000). Consider pre-processing your data with StandardScaler or MinMaxScaler.
    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _ached_call
        result, _ = _get_response_values(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
        Xt = transform.transform(Xt)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
        Xs = self._fit_transform(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform

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        return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
all_
    return super().__call__(iterable_with_config)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
            ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
        data_to_wrap = f(self, X, *args, **kwargs)
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
        Xs = self._fit_transform(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
        return Parallel(n_jobs=self.n_jobs)(
            ~~~~~
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
all_
    return super().__call__(iterable_with_config)
            ~~~~~

```

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
  while self.dispatch_one_batch(iterator):
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
  self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
  job = self._backend.apply_async(batch, callback=cb)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
  result = ImmediateResult(func)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
  self.results = batch()
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
  return [func(*args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>   return [func(*args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
  return self.function(*args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
  res = transformer.transform(X)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
  data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
  X_int, X_mask = self._transform(
    ~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
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ValueError: Found unknown categories ['yes'] in column 0 during transform

  warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    score = scorer._score(
      ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
    y_pred = method_caller(estimator, "predict", X)
      ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
      ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
      ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
      ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
      ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
      ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
      ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
      ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
  while self.dispatch_one_batch(iterator):
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch

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self._dispatch(tasks)
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
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    return self.function(*args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^^^^^
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    ^^^^^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
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    score = scorer._score(
    ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
    ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in

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apply_async
    result = ImmediateResult(func)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
    res = transformer.transform(X)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
        y_pred = method_caller(estimator, "predict", X)
        ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _ached_call
        result, _ = _get_response_values(
        ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
        y_pred = prediction_method(X)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ^^^^^^
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    data_to_wrap = f(self, X, *args, **kwargs)
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
        job = self._backend.apply_async(batch, callback=cb)
        ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ^^^^^^

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~~~~~
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)
           ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
    X_int, X_mask = self._transform(
                      ^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    score = scorer._score(
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  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _score
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
                   ^^^^^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
                  ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
    Xt = transform.transform(Xt)
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
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                  ^^^^
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    return [func(*args, **kwargs)
           ^^^^^^^^^^
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>    return [func(*args, **kwargs)
           ^^^^^^^^^^

```

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>     return [func(*args, **kwargs)
         ~~~~~
         File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
         return self.function(*args, **kwargs)
         ~~~~~
         File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transform_one
         res = transformer.transform(X)
         ~~~~~
         File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
         data_to_wrap = f(self, X, *args, **kwargs)
         ~~~~~
         File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
         X_int, X_mask = self._transform(
         ~~~~~
         File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
         raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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    score = scorer._score(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in _score
    y_pred = method_caller(estimator, "predict", X)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
    result, _ = _get_response_values(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _get_response_values
    y_pred = prediction_method(X)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatch
    job = self._backend.apply_async(batch, callback=cb)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
    ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
>      return [func(*args, **kwargs)]
      ~~~~~
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)

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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
016, in transform
    X_int, X_mask = self._transform(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWar
ning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in _
_call_
    score = scorer._score(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in _s
core
    y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _c
ached_call
    result, _ = _get_response_values(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in _g
et_response_values
    y_pred = prediction_method(X)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision
_function
    Xt = transform.transform(Xt)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in
wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 816, in transform
    Xs = self._fit_transform(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", li
ne 670, in _fit_transform
    return Parallel(n_jobs=self.n_jobs)(
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __c
all__
    return super().__call__(iterable_with_config)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_
one_batch
    self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in _dispatc
h
    job = self._backend.apply_async(batch, callback=cb)
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in
apply_async
    result = ImmediateResult(func)
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    self.results = batch()
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    return [func(*args, **kwargs)]
~~~~~

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)]
~~~~~

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    return self.function(*args, **kwargs)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in _transfo
rm_one
    res = transformer.transform(X)
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File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)
                   ^^^^^^^^^^^^^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 106, in transform
    X_int, X_mask = self._transform(
                      ^^^^^^^^^^^^^^

File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 199, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning: Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
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                   ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 353, in __score
    y_pred = method_caller(estimator, "predict", X)
                   ^^^^^^^^^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in __ached_call
    result, _ = _get_response_values(
                   ^^^^^^^^^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
    y_pred = prediction_method(X)
                   ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 507, in predict
    Xt = transform.transform(Xt)
          ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
    Xs = self._fit_transform(
          ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
    return Parallel(n_jobs=self.n_jobs)(
          ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
    return super().__call__(iterable_with_config)
          ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
    while self.dispatch_one_batch(iterator):
          ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
    self._dispatch(tasks)
  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
    job = self._backend.apply_async(batch, callback=cb)
          ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
    result = ImmediateResult(func)
          ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
    self.results = batch()
          ^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
    return [func(*args, **kwargs)]
          ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
    return [func(*args, **kwargs)
          ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
    return self.function(*args, **kwargs)
          ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transfor
rm_one
    res = transformer.transform(X)
          ^^^^^^^^^^

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in wrapped
    data_to_wrap = f(self, X, *args, **kwargs)

  File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 106, in transform

```

```

X_int, X_mask = self._transform(
    ^^^^^^^^^^^^^^
File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1
99, in _transform
    raise ValueError(msg)
ValueError: Found unknown categories ['yes'] in column 0 during transform

    warnings.warn(
/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/model_selection/_validation.py:842: UserWarning:
Scoring failed. The score on this train-test partition for these parameters will be set to nan. Details:
Traceback (most recent call last):
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 136, in __call__
        score = scorer._score(
            ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 459, in __score
        y_pred = method_caller(clf, "decision_function", X, pos_label=pos_label)
            ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/metrics/_scorer.py", line 86, in _cached_call
        result, _ = _get_response_values(
            ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_response.py", line 85, in __get_response_values
        y_pred = prediction_method(X)
            ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 602, in decision_function
        Xt = transform.transform(Xt)
            ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
        data_to_wrap = f(self, X, *args, **kwargs)
            ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 816, in transform
        Xs = self._fit_transform(
            ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/compose/_column_transformer.py", line 670, in __fit_transform
        return Parallel(n_jobs=self.n_jobs)(
            ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 65, in __call__
        return super().__call__(iterable_with_config)
            ^^^^^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 1088, in __call__
        while self.dispatch_one_batch(iterator):
            ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 901, in dispatch_one_batch
        self._dispatch(tasks)
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 819, in __dispatch
        job = self._backend.apply_async(batch, callback=cb)
            ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 208, in apply_async
        result = ImmediateResult(func)
            ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/_parallel_backends.py", line 597, in __init__
        self.results = batch()
            ^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in __call__
        return [func(*args, **kwargs)
            ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/joblib/parallel.py", line 288, in <listcomp>
        return [func(*args, **kwargs)
            ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/parallel.py", line 127, in __call__
        return self.function(*args, **kwargs)
            ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/pipeline.py", line 933, in __transform_one
        res = transformer.transform(X)
            ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/utils/_set_output.py", line 140, in __wrapped__
        data_to_wrap = f(self, X, *args, **kwargs)
            ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1016, in transform
        X_int, X_mask = self._transform(
            ^^^^^^^^^^
    File "/Users/basilhaddad/anaconda3/envs/snowflakes/lib/python3.11/site-packages/sklearn/preprocessing/_encoders.py", line 1099, in __transform
        raise ValueError(msg)

```

```
ValueError: Found unknown categories ['yes'] in column 0 during transform
```

```
warnings.warn()
```

Results for svc:

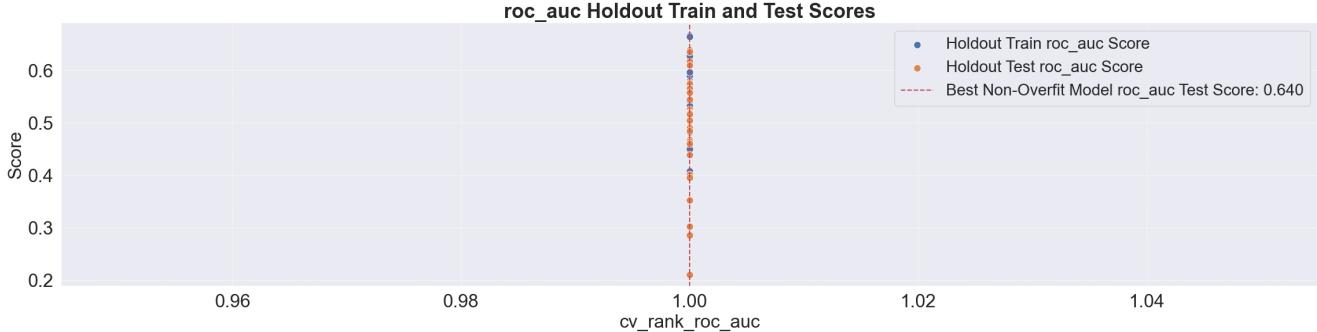
Models ranked by descending cv_rank_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_svc__C	param_s
1	nan	No	0.621509	0.639647	0.814273	nan	nan	0.067120	
1	nan	No	0.628116	0.635783	0.776358	nan	nan	0.002499	
1	nan	No	0.588079	0.617400	0.837801	nan	nan	0.000947	
1	nan	No	0.590725	0.610843	0.805812	nan	nan	0.001435	

Models ranked by overfit status and descending holdout test_roc_auc

cv_rank_roc_auc	cv_roc_auc	is_overfit	train_roc_auc	test_roc_auc	mean_fit_time	mean_test_accuracy	mean_test_precision	param_svc__C	param_s
1	NaN	No	0.621509	0.639647	0.814273	NaN	NaN	0.06712	
1	NaN	No	0.628116	0.635783	0.776358	NaN	NaN	0.002499	
1	NaN	No	0.588079	0.617400	0.837801	NaN	NaN	0.000947	
1	NaN	No	0.590725	0.610843	0.805812	NaN	NaN	0.001435	

<Figure size 640x480 with 0 Axes>



Best Models From Each Grid/Random Search:

model	train roc_auc score	test roc_auc score	mean fit time	mean_test_accuracy	mean_test_precision
knn	0.668510	0.680160	0.736773	nan	nan
lgr	0.653392	0.666755	0.605663	nan	nan
lgr_saga_l1l2	0.651265	0.667465	0.708192	nan	nan
lgr_saga_elastic	0.652486	0.667181	0.701208	nan	nan
dtree	0.500000	0.500000	0.674100	nan	nan
svc	0.621509	0.639647	0.814273	nan	nan

Again we reevaluate Set5 results using our evaluate_models function on the best scoring model (knn)

```
In [111]: #split the data and do holdout validation so that we can see the missing scores
X_train_set5, X_test_set5, y_train_set5, y_test_set5 = train_test_split(X_no_impute_no_dups,y_no_impute_no_dups,
stratify=y_no_impute_no_dups,
random_state=42)
tools.evaluate_models(models_set5[0], X_train_set5, y_train_set5, X_test_set5, y_test_set5)
```

Model	Train Time	Inference Time	Train Accuracy	Test Accuracy	Train Precision	Test Precision	Train Recall	Test Recall	Train f1	Test f1	Train ROC AUC	Test ROC AUC
0 Pipeline	0.531592	0.135635	0.748991	0.748739	0.560987	0.56061	0.748991	0.748739	0.641498	0.641159	0.661795	0.654924

SET 5 RESULTS/ANALYSIS:

- The best model in this case seems overfit. The test ROC AUC is similar to other sets while the precision of the best model is very low

SUMMARY OF MODELING RESULTS

- Set 1: Balanced Pipelines (no class_weights), 5 features, no imputing, no duplicates dropped
- Set 2: Weighted Pipelines, 5 features, no imputing, no duplicates dropped
- Set 3: Weighted Pipelines, 5 features, Simple Imputer, for all features except default, no duplicates dropped
- Set 4: Weighted Pipelines, 5 features, no imputing, duplicates dropped
- Set 5: Weighted Pipelines, 5 features, Simple Imputer for all features except default, duplicates dropped

In [128]: results_df_set1

	model	train roc_auc score	test roc_auc score	mean fit time	mean_test_accuracy	mean_test_precision
0	lgr	0.664728	0.661370	19.993211	0.514152	0.845869
1	lgr_saga_l1l2	0.668225	0.660663	23.327606	0.610104	0.840228
2	lgr_saga_elastic	0.650284	0.653682	21.010838	0.456347	0.845139
3	knn	0.672715	0.657073	1.302407	0.887584	0.787806
4	dtree	0.500000	0.500000	1.360314	0.112416	0.012637
5	svc	0.516418	0.516664	17.550135	0.445371	0.796574

In [133]: results_df_set2

	model	train roc_auc score	test roc_auc score	mean fit time	mean_test_accuracy	mean_test_precision
0	lgr	0.652331	0.656672	1.488931	0.563874	0.838321
1	lgr_saga_l1l2	0.650890	0.655896	1.511839	0.564206	0.838226
2	lgr_saga_elastic	0.662118	0.663104	23.392615	0.887584	0.787806
3	knn	0.672715	0.657073	1.912423	0.887584	0.787806
4	dtree	0.500000	0.500000	1.170062	0.112416	0.012637
5	svc	0.643583	0.651736	24.007791	0.887584	0.787806

In [137]: results_df_set3

	model	train roc_auc score	test roc_auc score	mean fit time	mean_test_accuracy	mean_test_precision
0	knn	0.673319	0.657396	1.735170	0.887584	0.787806
1	lgr	0.651818	0.657200	1.585244	0.560947	0.838054
2	lgr_saga_l1l2	0.650543	0.656226	1.705905	0.563042	0.837821
3	lgr_saga_elastic	0.664408	0.664616	19.141769	0.887584	0.821644
4	dtree	0.500000	0.500000	0.915330	0.112416	0.012637
5	svc	0.642986	0.652167	19.950604	0.887584	0.787806

In [138]: results_df_set4

	model	train roc_auc score	test roc_auc score	mean fit time	mean_test_accuracy	mean_test_precision
0	lgr	0.660832	0.661170	0.204934	NaN	NaN
1	lgr_saga_l1l2	0.656486	0.659135	0.2666176	NaN	NaN
2	lgr_saga_elastic	0.661365	0.663680	0.361936	NaN	NaN
3	knn	0.676003	0.674276	0.263576	NaN	NaN
4	dtree	0.580527	0.603678	0.220105	NaN	NaN
5	svc	0.640872	0.647592	0.409076	NaN	NaN

In [139]: results_df_set5

	model	train roc_auc score	test roc_auc score	mean fit time	mean_test_accuracy	mean_test_precision
0	knn	0.668510	0.680160	0.736773	NaN	NaN
1	lgr	0.653392	0.666755	0.605663	NaN	NaN
2	lgr_saga_l1l2	0.651265	0.667465	0.708192	NaN	NaN
3	lgr_saga_elastic	0.652486	0.667181	0.701208	NaN	NaN
4	dtree	0.500000	0.500000	0.674100	NaN	NaN
5	svc	0.621509	0.639647	0.814273	NaN	NaN

Comparing the cross validation of all 30 grid searches (5 sets of 6):

- Once again preference is given to decision trees and logistic regression because they are the most interpretable. That said:
 - Decision Tree model ROC AUC had to drop to 0.5 to find non-overfit model. There is one exception but that score is well below our best Logistic Regression Results
 - SVM did produce non-overfit models but those scores were still below Logistic Regression and the fit time was consistently among the highest
 - KNN performed marginally better than Logistic Regression in some cases however, this is not enough to offset the fact that it had longer training times and is less interpretable than Logistic Regression
 - From the Logistic Regression Models, the plain logistic regression model from set 3 performed the best when we look at score and training time together

Compare Best CV Model with Simple Model using 5 features only

But one thing we haven't done yet is run our simple model using just the 5 features and compare it against our best model from CV so we will do that now.

Reconstruct simple transformer to apply to 5 features only (No Polynomial Features)

Note that I changed the one hot encoder to always drop the first column. This was done to make interpretation of the coefficients easier even when they are not binary. The scores were not affected and the time actually improved

```
In [42]: #Reconstruct simple transformer to apply 5 features only
simple_transformer5 = ColumnTransformer(
    transformers=[
        ('ohe', OneHotEncoder(drop='first', sparse_output=False), ['marital', 'default', 'job', 'education']),
    ], remainder='passthrough')
#Reconstruct new pipeline to work with transformer on 4 fields
simple_pipeline_with_selector5 = Pipeline([
    ('transformer', simple_transformer5),
    ('scaler', StandardScaler()),
    ('selector', SelectFromModel(LogisticRegression(penalty='l1', solver='liblinear', max_iter=1000, random_state=42)) ),
    ('lgr', LogisticRegression())
])
```

```
In [44]: X5_train, X5_test, y5_train, y5_test = train_test_split(X5,y5, stratify=y5, random_state=42)
tools.evaluate_models(simple_pipeline_with_selector5, X5_train, y5_train, X5_test, y5_test)
```

	Model	Train Time	Inference Time	Train Accuracy	Test Accuracy	Train Precision	Test Precision	Train Recall	Test Recall	Train f1	Test f1	Train ROC AUC	Test ROC AUC
0	Pipeline	0.212821	0.014858	0.887346	0.887346	0.787383	0.787383	0.887346	0.887346	0.834381	0.834381	0.650879	0.654356

Final Model Selection

From CV we would select the Logistic Regression Model from Set 3 because it performs much faster than the best model and has very similar scores

However it turns out that when we reconstruct our **initial simple transformer to handle just 5 features**, it performs about as good as our best CV model but it is also faster and does not include the complexity of PolynomialFeatures or imputation. We will use this as it will be the easiest to interpret.

Examining the Model

Below we will build the confusion matrix

```
In [341]: #Assign new name to final model
my_model = simple_pipeline_with_selector5
y5_preds = my_model.predict(X5_test)
conf_matrix = confusion_matrix(y5_test, y5_preds)
```

```
In [375]: #Plot the confusion matrix and the ROC AUC curve
fix, ax = plt.subplots(1, 2, figsize=(20, 8))
sns.set(style="whitegrid", font_scale=1)
common_fontsize=20

plt.subplot(1, 2, 1)
sns.heatmap(conf_matrix, annot=True, fmt='d', cmap='Purples', annot_kws={"size": 20},
            xticklabels=['No', 'Yes'], yticklabels=['No', 'Yes'])
plt.title('Confusion Matrix for Chosen Model', fontsize=common_fontsize)
plt.xlabel('Predicted', fontsize=common_fontsize)
plt.ylabel('True', fontsize=common_fontsize)
plt.xticks(fontsize=common_fontsize)
plt.yticks(fontsize=common_fontsize)

plt.subplot(1, 2, 2)
RocCurveDisplay.from_estimator(my_model, X5_test, y5_test, pos_label='yes', linewidth=2.7, ax=ax[1])
ax[1].plot(np.array([0, 1]), np.array([0, 1]), linewidth=2.7, label='baseline')
plt.title('ROC Curve for Chosen Model', fontsize=common_fontsize)
```

```

plt.xlabel('False Positive Rate', fontsize=common_fontsize)
plt.ylabel('True Positive Rate', fontsize=common_fontsize)
plt.xticks(fontsize=common_fontsize)
plt.yticks(fontsize=common_fontsize)
plt.legend(title='', title_fontsize=common_fontsize, fontsize=common_fontsize)

"""Different way of plotting ROC AUC curve
# Calculate the ROC curve points
fpr, tpr, thresholds = roc_curve(y5_test, base_probs, pos_label='yes')

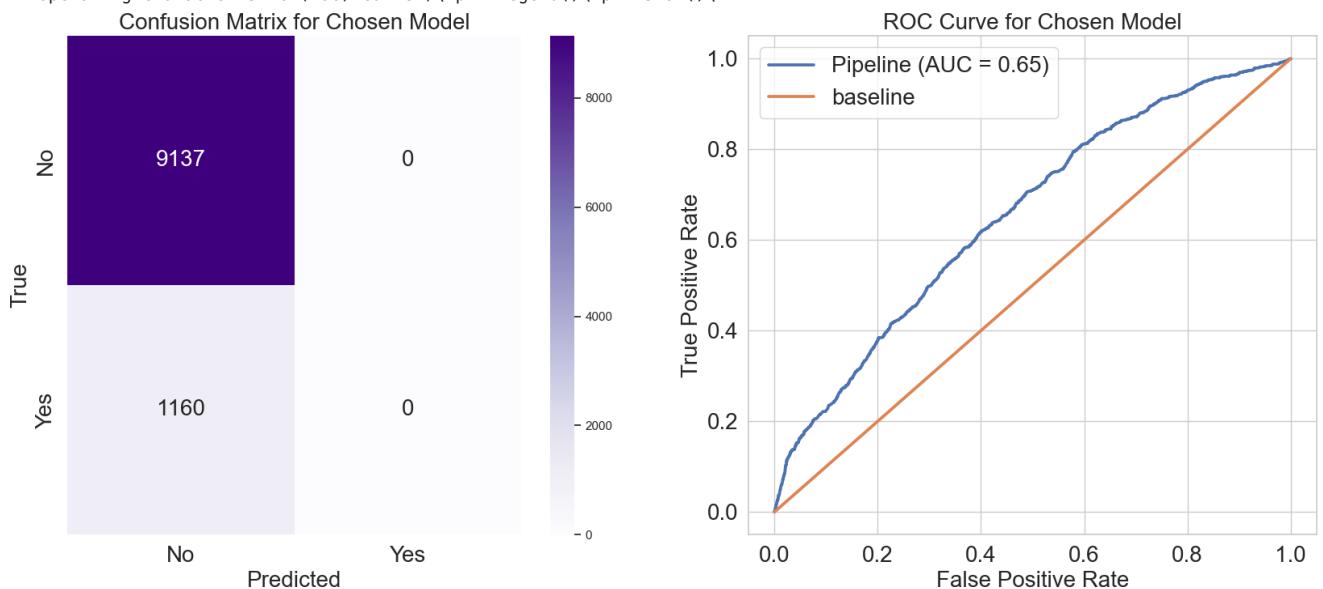
# Calculate the ROC AUC score
roc_auc = roc_auc_score(y5_test, base_probs)

# Plot the ROC curve
plt.figure(figsize=(10, 8))
plt.plot(fpr, tpr, color='blue', label=f'ROC Curve (AUC = {roc_auc:.2f})')
plt.plot([0, 1], [0, 1], color='red', linestyle='--')
plt.xlabel('False Positive Rate')
plt.ylabel('True Positive Rate')
plt.title('Receiver Operating Characteristic (ROC) Curve')
plt.legend()
plt.show()
"""

```

Out[375]:

```
"Different way of plotting ROC AUC curve\n# Calculate the ROC curve points\nfpr, tpr, thresholds = roc_curve(y5_test, base_probs, pos_label='yes')\n\n# Calculate the ROC AUC score\nroc_auc = roc_auc_score(y5_test, base_probs)\n\n# Plot the ROC curve\nplt.figure(figsize=(10, 8))\nplt.plot(fpr, tpr, color='blue', label=f'ROC Curve (AUC = {roc_auc:.2f})')\nplt.plot([0, 1], [0, 1], color='red', linestyle='--')\nplt.xlabel('False Positive Rate')\nplt.ylabel('True Positive Rate')\nplt.title('Receiver Operating Characteristic (ROC) Curve')\nplt.legend()\nplt.show()\n"
```



Verify Confusion Matrix is correctly labeled

The calculations of the FP, TP, TN, FN below do show that we have labeled the confusion matrix properly

In [345]:

```
#Calculate FP, TP, TN and FN
y5_preds = my_model.predict(X5_test)
base_fp = 0
base_tp = 0
base_fn = 0
base_tn = 0
for i, j in zip(y5_preds, y5_test):
    if i == 'yes':
        if j == 'no':
            base_fp += 1
        if j == 'yes':
            base_tp += 1
    if i == 'no':
        if j == 'no':
            base_tn += 1
        if j == 'yes':
            base_fn += 1

base_fp, base_tp, base_tn, base_fn
```

Out[345]:

```
(0, 0, 9137, 1160)
```

Increase confidence levels

Even though we have 0 False Negatives which is what we wanted to minimize, we have 0 True Positives indicating that the model is not predicting any of the success!

Since our business goal is to increase the efficiency of the marketing campaign by achieving higher success rates for the same number of contacts, we normally would try and raise the confidence level of predicting successes to ~80% for instance but as seen below this does nothing since our TP and FP are already equal to 0.

```
In [413]: #Define base probabilities as well as positive and negative probabilities
pos_base_probs = my_model.predict_proba(X5_test)[:, 1] # Probabilities of the positive class
neg_base_probs = my_model.predict_proba(X5_test)[:, 0]
base_probs = my_model.predict_proba(X5_test)

# Set the threshold to 0.8
threshold = 0.80

# Apply the threshold to the probabilities to get the new predictions
y5_pred_high_conf_pos = np.where(pos_base_probs >= threshold, 'yes', 'no')

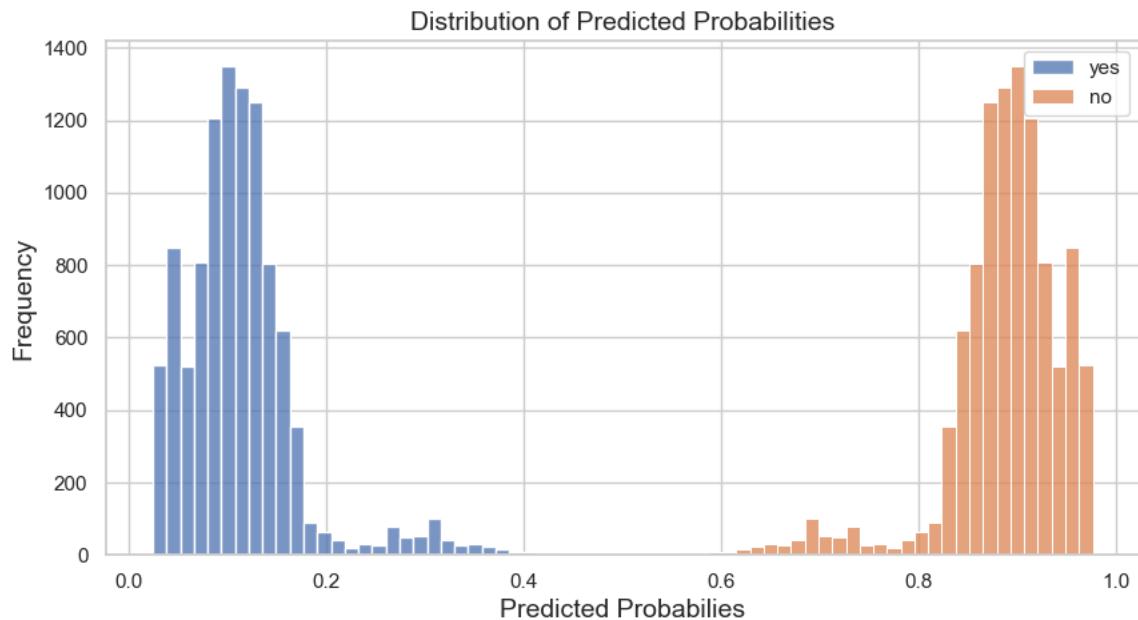
# Generate a new confusion matrix based on the new predictions
conf_matrix_high_conf = confusion_matrix(y5_test, y5_pred_high_conf_pos)

# Plot the new confusion matrix
common_fontsize=14
plt.figure(figsize=(6, 4))
sns.heatmap(conf_matrix_high_conf, annot=True, fmt='d', cmap='Purples',
            xticklabels=['No', 'Yes'], yticklabels=['No', 'Yes'], annot_kws={"size": 14})
plt.xlabel('Predicted', fontsize=common_fontsize)
plt.ylabel('True', fontsize=common_fontsize)
plt.xticks(fontsize=common_fontsize)
plt.yticks(fontsize=common_fontsize)
plt.title('Confusion Matrix with 80% Confidence of Success')
plt.show()
```



As expected, raising the threshold to 80% did not change the number of True Positives . This tells us that the model is not predicting on the positive class let alone doing so with high confidence. This is probably due to the imbalance in the dataset and the fact that we did not use campaign or economic related features. Below we examine the distribution of the probabilities to see if we can increase the confidence level of the no class

```
In [387]: # Plot the distribution of predicted probabilities
common_fontsize =14
sns.set(style="whitegrid", font_scale=1)
plt.figure(figsize=(10, 5))
sns.histplot(pos_base_probs, bins=30, label = 'yes', kde=False)
sns.histplot(neg_base_probs, bins=30, label = 'no', kde=False)
plt.xlabel('Predicted Probabilities', fontsize=common_fontsize)
plt.ylabel('Frequency', fontsize=common_fontsize)
plt.title('Distribution of Predicted Probabilities', fontsize=common_fontsize)
plt.axvline(x=threshold, color='r', linestyle='--', label=f'Threshold {threshold}')
plt.legend()
plt.show()
```



Observations on probability distributions

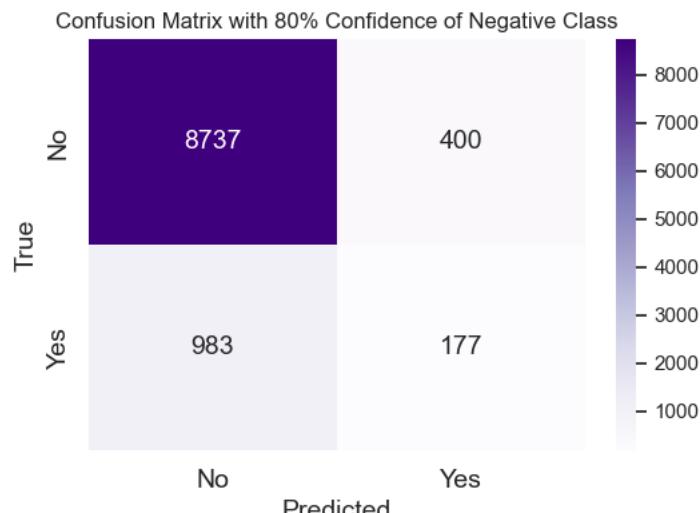
- Again our business goal is to increase the efficiency of the campaign
- Based on the distribution above, we cannot raise the threshold of positive predictions above 50%
- If our goal was just to find more customers who would subscribe then it would make sense to lower our threshold of positive predictions to ~15% but that is not what we want to do!
- The only thing we can do is raise the threshold of negative predictions above 80%. This would help the campaign ensure they do not waste their time on contacts who are not likely to subscribe!

```
In [392]: # Set the threshold to 0.8
threshold = 0.80

# Apply the threshold to the negative probabilities
y5_pred_high_conf_neg = np.where(neg_base_probs >= threshold, 'no', 'yes')

# Generate a new confusion matrix based on the new predictions with threshold =0.8 for the negative class
conf_matrix_high_conf = confusion_matrix(y5_test, y5_pred_high_conf_neg)

# Plot the new confusion matrix
common_fontsize=14
plt.figure(figsize=(6, 4))
sns.heatmap(conf_matrix_high_conf, annot=True, fmt='d', cmap='Purples',
            xticklabels=['No', 'Yes'], yticklabels=['No', 'Yes'], annot_kws={"size": 14})
plt.xlabel('Predicted', fontsize=common_fontsize)
plt.ylabel('True', fontsize=common_fontsize)
plt.xticks(fontsize=common_fontsize)
plt.yticks(fontsize=common_fontsize)
plt.title('Confusion Matrix with 80% Confidence of Negative Class')
plt.show()
```



Below we create a list of client profiles to avoid

```
In [401]: #list of client profiles to avoid
client_profiles_to_avoid = X5_test[y5_pred_high_conf_neg == 'no']
client_profiles_to_avoid.head(3)
```

```
Out[401]:   age    job  marital  education  default
31165    41  blue-collar    single  basic.9y     no
26855    31      services  divorced  high.school     no
38292    56      admin.    married  basic.9y     no
```

We can convert the dataframe `client_profiles_to_avoid` to a spreadsheet. Then we can advise the marketing team to avoid making a contact with clients client that have the characteristics in the spreadsheet

Interpretation of Coefficients

```
In [243]: #Define coefficients and intercept
my_coefs = my_model.named_steps.lgr.coef_[0]
intercept = my_model.named_steps.lgr.intercept_

#Features from Transformer
my_features = my_model.named_steps.transformer.get_feature_names_out()

#create mask for remaining features after selectfrommodel
remaining_feature_mask = my_model.named_steps.selector.get_support()

#Set remaining features
remaining_features = np.array(my_features)[remaining_feature_mask]

# Get the means and standard deviations
scaler = my_model.named_steps['scaler']
means = scaler.mean_[remaining_feature_mask]
std_devs = scaler.scale_[remaining_feature_mask] # standard deviation

# Create the dataframe with coefficients, means, and std_devs
interpretation_df = pd.DataFrame({
    'coefs': my_coefs,
    'means': means,
    'std_devs': std_devs,
    'exp_unscaled_coefs': np.exp(my_coefs/std_devs),
}, index=remaining_features)

#Sort the dataframe
interpretation_df = interpretation_df.sort_values(by='exp_unscaled_coefs', ascending=False)

interpretation_df
```

	coefs	means	std_devs	exp_unscaled_coefs
ohe__job_student	0.164195	0.021560	0.145241	3.097211
ohe__education_illiterate	0.020060	0.000453	0.021284	2.566447
ohe__job_retired	0.149301	0.041857	0.200262	2.107560
ohe__marital_unknown	0.028955	0.002007	0.044755	1.909734
ohe__marital_single	0.204026	0.282024	0.449985	1.573662
ohe__job_unemployed	0.044050	0.024667	0.155109	1.328425
ohe__education_unknown	0.045466	0.042569	0.201883	1.252588
ohe__education_university.degree	0.075404	0.295264	0.456161	1.179748
ohe__marital_married	0.072437	0.604739	0.488907	1.159700
ohe__job_unknown	0.012858	0.008158	0.089951	1.153665
remainder__age	0.143902	40.011589	10.400970	1.013932
ohe__education_professional.course	-0.003734	0.127286	0.333293	0.988859
ohe__education_high.school	-0.021529	0.231556	0.421827	0.950243
ohe__job_housemaid	-0.017782	0.025800	0.158539	0.893897
ohe__job_technician	-0.057078	0.164125	0.370389	0.857184
ohe__job_self-employed	-0.028045	0.033602	0.180202	0.855875
ohe__job_management	-0.045000	0.071445	0.257566	0.839698
ohe__education_basic.9y	-0.070448	0.146677	0.353784	0.819446
ohe__job_services	-0.087266	0.096824	0.295718	0.744460
ohe__job_entrepreneur	-0.061722	0.034476	0.182449	0.712983
ohe__job_blue-collar	-0.144302	0.224920	0.417530	0.707789
ohe__default_unknown	-0.371003	0.209835	0.407190	0.402070
ohe__default_yes	-0.062523	0.000097	0.009854	0.001756

Below is the list of features that came out of the transformer. We note that the following columns were dropped by the one hot encoder:

- ohe__marital_divorced
- ohe__default_no
- ohejobadmin
- oheeducationbasic.4y

These columns will be considered the **reference categories** when we do our interpretation below

In [244]: my_features

```
Out[244]: array(['ohe__marital_married', 'ohe__marital_single',
       'ohe__marital_unknown', 'ohe__default_unknown', 'ohe__default_yes',
       'ohe__job_blue-collar', 'ohe__job_entrepreneur',
       'ohe__job_housemaid', 'ohe__job_management', 'ohe__job_retired',
       'ohe__job_self-employed', 'ohe__job_services', 'ohe__job_student',
       'ohe__job_technician', 'ohe__job_unemployed', 'ohe__job_unknown',
       'ohe__education_basic.6y', 'ohe__education_basic.9y',
       'ohe__education_high.school', 'ohe__education_illiterate',
       'ohe__education_professional.course',
       'ohe__education_university.degree', 'ohe__education_unknown',
       'remainder__age'], dtype=object)
```

Below are the most important coefficients along with their interpretation. Note that for each of these we assume that all other variables in the model are held constant:

- Job:
 - Students are 3.09 times more likely to subscribe than clients who are admins
 - Retirees are 2.1 times more likely to subscribe than clients who are admins
 - Unemployed people are 1.33 times more likely to subscribe than clients who are admins
 - Clients with unknown jobs are 1.15 times more likely to subscribe than clients who are admins
- Education:
 - Clients who are illiterate are 2.57 times more likely to subscribe than clients with a basic.4y education
 - Clients with unknown education are 1.25 times more likely to subscribe than clients with a basic.4y
 - Clients with a university degree are 1.18 times more likely to subscribe than clients with a basic.4y
- Marital:
 - Clients whose marital status is unknown are 1.91 times more likely to subscribe than divorced clients
 - Clients who are single are 1.57 times more likely to subscribe than divorced clients
 - Clients who are married are 1.15 times more likely to subscribe than divorced clients
- Age:

- For every unit increase in age, the client is 1.013 times more likely to subscribe which means that for every 1 year increase, the odds the client will subscribe increase by 1.3%.

Counterfactuals

```
In [39]: #We use a copy of our dataset
CF_df = X5.copy()
CF_df['y']=y5
CF_df.head()
```

```
Out[39]:   age      job marital education default    y
0   56  housemaid  married   basic.4y     no  no
1   57    services  married  high.school  unknown  no
2   37    services  married  high.school     no  no
3   40   admin.  married   basic.6y     no  no
4   56    services  married  high.school     no  no
```

```
In [40]: # Step 1: dice_ml.Data
import dice_ml
d = dice_ml.Data(dataframe=CF_df, continuous_features=['age'], outcome_name='y')
```

```
In [45]: dtclf = simple_pipeline_with_selector5.fit(X5_train, y5_train)
# Step 2: setup the model
m = dice_ml.Model(model = dtclf, backend = "sklearn")
```

```
In [480...]: # Step 3: generate counterfactuals
exp = dice_ml.Dice(d, m)

e1 = exp.generate_counterfactuals(X5_test[0:1],
                                    total_CFs = 2,
                                    desired_class = "opposite")
```

100% |██████████| 1/1 [00:00<00:00, 11.86it/s]

```
In [481...]: e1.visualize_as_dataframe()

Query instance (original outcome : 0)
   age      job marital education default    y
0   41  blue-collar  single   basic.9y     no  0

Diverse Counterfactual set (new outcome: 1.0)
   age      job marital education default    y
0   41    student  single    illiterate     no  1
1   41    retired  single    illiterate     no  1
```

CounterFactuals Analysis:

- If you have a group of clients who are of age 41 that have never defaulted, then you'd want to pick the ones that are students and illiterate or retired and illiterate to improve your chances of finding a client who will subscribe
- This matches what we found when looking at the coefficients!

Findings for non-technical audience

- In your campaigns try to target students then retirees and then unemployed clients. Avoid admins.
- Try to target illiterate clients, then clients whose education status is unknown then those with a university degree. Avoid clients with basic4y
- Try to target clients whose marital status is unknown then those who are single then those who are married. Avoid clients who are divorced.
- Also target older clients. The older the better.
- Lastly we will be sending you a spreadsheet containing profiles to avoid. We know with high confidence that clients with these profiles are unlikely to subscribe. We recommend avoiding them

```
In [ ]:
```

Next Steps and Recommendations

- More needs to be done to favor the positive class and address the imbalance in the dataset. Ideas include:
 - Carrying out more campaigns targeting the clients that have profiles as described in our recommendations
 - We did try to oversample with SMOTE but you may want to try other sampling techniques to address the imbalance of this dataset
 - Use additional features related to the campaign and/or economic features
 - Try to use other types of imputers
 - Continue to run grid searches with updated datasets

- More exploration of counterfactuals

```
In [ ]:
```