

Search Results • MUR...Platform Login Creden...StudentUntitled0.ipynb - ColabWhatsAppThyroid Disease Data

colab.research.google.com/drive/1GRXvwdzr4zXCvUXoG2d7H-L3nKjSge7#scrollTo=mf7ras27-OEL

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Untitled0.ipynb

File Edit View Insert Runtime Tools Help All changes saved

Files

sample_data
thyroidDF.csv

+ Code + Text

RAM
Disk

✓ [40]

age sex on_thyroxine query_on_thyroxine on_antithyroid_meds sick pregnant thyroid_surgery I131_treatment query_hypothyroid ...

0	29	F	f	f	f	f	f	f	f	t	...
1	29	F	f	f	f	f	f	f	f	f	...
2	41	F	f	f	f	f	f	f	f	f	...
3	36	F	f	f	f	f	f	f	f	f	...
4	32	F	f	f	f	f	f	f	f	f	...
...
9167	56	M	f	f	f	f	f	f	f	f	...
9168	22	M	f	f	f	f	f	f	f	f	...
9169	69	M	f	f	f	f	f	f	f	f	...
9170	47	F	f	f	f	f	f	f	f	f	...
9171	31	M	f	f	f	f	f	f	f	t	...

9172 rows x 30 columns

0s completed at 1:28 PM

thyroidDF.csv

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The screenshot shows a Jupyter Notebook with a file explorer on the left and a code editor on the right. The file explorer shows a directory named 'sample_data' containing a file 'thyroidDF.csv'. The code editor displays the following code cells:

```
[56] label_encoder=LabelEncoder()
      y_dt=label_encoder.fit_transform(y)

[57] y=pd.DataFrame(y_dt, columns=['target'])

[38] y

0      840801013
1      840801014
2      840801042
3      840803046
4      840803047
...
9167   870119022
9168   870119023
9169   870119025
9170   870119027
9171   870119035
Name: patient_id, Length: 9172, dtype: int64

[39] x=data.iloc[:,0:-1]
      y=data.iloc[:, -1]

[40] x
```

The bottom status bar indicates 'Disk 84.49 GB available' and 'completed at 1:28 PM'.

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Files

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✓ [34] Os

<ipython-input-34-be653e34d38c>:1: SettingWithCopyWarning:
A value is trying to be set on a copy of a DataFrame

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
x.replace(np.nan, '0', inplace=True)

✓ [35] x

	age	sex	on_thyroxine	query_on_thyroxine	on_antithyroid_meds	sick	pregnant	thyroid_surgery	I131_treatment	query_hypothyroid	...
9171	31.0	1	0	0	0	0	0	0	0	1	...
9170	47.0	0	0	0	0	0	0	0	0	0	...
9169	69.0	1	0	0	0	0	0	0	0	0	...
9168	22.0	1	0	0	0	0	0	0	0	0	...
9167	56.0	1	0	0	0	0	0	0	0	0	...
...
5	60.0	0	0	0	0	0	0	0	0	0	...
4	32.0	0	0	0	0	0	0	0	0	0	...
3	36.0	0	0	0	0	0	0	0	0	0	...
2	41.0	0	0	0	0	0	0	0	0	0	...
1	29.0	0	0	0	0	0	0	0	0	0	...

Os completed at 1:28 PM

thyroidDF.csv

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x.info()

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 9172 entries, 0 to 9171
Data columns (total 30 columns):
#   Column                Non-Null Count  Dtype
---  -
0   age                   9172 non-null   float64
1   sex                   9172 non-null   object
2   on_thyroxine          9172 non-null   object
3   query_on_thyroxine    9172 non-null   object
4   on_antithyroid_meds   9172 non-null   object
5   sick                  9172 non-null   object
6   pregnant              9172 non-null   object
7   thyroid_surgery       9172 non-null   object
8   I131_treatment        9172 non-null   object
9   query_hypothyroid     9172 non-null   object
10  query_hypothyroid     9172 non-null   object
11  lithium               9172 non-null   object
12  goitre                9172 non-null   object
13  tumor                 9172 non-null   object
14  hypopituitary         9172 non-null   object
15  psych                 9172 non-null   object
16  TSH_measured          9172 non-null   object
17  TSH                   8330 non-null   float64
18  T3_measured           9172 non-null   object
19  T3                    6568 non-null   float64
20  TT4_measured          9172 non-null   object
21  TT4                   8730 non-null   float64
22  T4_measured           9172 non-null   object
```

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thyroidDF.csv

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Files

sample_data

thyroidDF.csv

[24] y

0 840801013

1 840801014

2 840801042

3 840803046

4 840803047

...

9167 870119022

9168 870119023

9169 870119025

9170 870119027

9171 870119035

Name: patient_id, Length: 9172, dtype: int64

[26] x['sex'].unique()

array(['M', 'F', nan], dtype=object)

[27] x['sex'].replace(np.nan, 'F', inplace=True)

<ipython-input-27-720c3f96a604>:1: SettingWithCopyWarning:
A value is trying to be set on a copy of a slice from a DataFrame

See the caveats in the documentation: https://pandas.pydata.org/pandas-docs/stable/user_guide/indexing.html#returning-a-view-versus-a-copy
x['sex'].replace(np.nan, 'F', inplace=True)

thyroidDF.csv

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```
[41] from sklearn.model_selection import train_test_split
x_train,x_test,y_train,y_test=train_test_split(x,y,test_size=0.20,random_state=0)

[42] from imblearn.over_sampling import SMOTE
y_train.value_counts()

860730007 1
850920074 1
860910043 1
850527065 1
850612027 1
...
860819029 1
851018026 1
860305010 1
851224017 1
850513001 1
Name: patient_id, Length: 7337, dtype: int64

[60] os=SMOTE(random_state=0,k_neighbors=1)
x_bal,y_bal=os.fit_resample(x_train,y_train)
x_test_bal,y_test_bal=os.fit_resample(x_test,y_test)

-----
ValueError                                Traceback (most recent call last)
<ipython-input-60-483abc55c779> in <cell line: 2>()
      1 os = SMOTE(random_state=0,k_neighbors=1)
----> 2 x_bal,y_bal=os.fit_resample(x_train,y_train)

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```

thyroidDF.csv

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Thyroid Disease Data

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thyroidDF.csv

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[21]

age sex on_thyroxine query_on_thyroxine on_antithyroid_meds sick pregnant thyroid_surgery I131_treatment query_hypothyroid ...
2976 455 F f f f f f f f f ..
5710 65511 M f f f f f f f f f ..
6392 65512 M f f f f f f f f f ..
8105 65526 F f f f f f f f f f ..
4 rows × 31 columns

[22] #splitting the data values as x and y
x=data.iloc[:0:-1]
y=data.iloc[:,1:]

[23] x

age sex on_thyroxine query_on_thyroxine on_antithyroid_meds sick pregnant thyroid_surgery I131_treatment query_hypothyroid ...
9171 31 M f f f f f f f f t ...
9170 47 F f f f f f f f f f ...
9169 69 M f f f f f f f f f ...

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+ Code + Text

[19] data.dropna(subset=['target'], inplace=True)

[20] data['target'].value_counts()

-	6771
K	436
G	359
I	346
F	233
R	196
A	147
L	115
M	111
N	110
S	85
GK	49
AK	46
J	30
B	21
PK	16
Q	14
O	14
C I	12
KJ	11
GI	10
H K	8
D	8
FK	6
C	6

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```
850612027 1
[42] ..
860819029 1
851018026 1
860305010 1
851224017 1
850513001 1
Name: patient_id, Length: 7337, dtype: int64

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-----
ValueError                                Traceback (most recent call last)
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      1 os = SMOTE(random_state=0,k_neighbors=1)
----> 2 x_bal,y_bal=os.fit_resample(x_train,y_train)
      3 x_test_bal,y_test_bal=os.fit_resample(x_test,y_test)

----- 7 frames -----
/usr/local/lib/python3.9/dist-packages/pandas/core/generic.py in _array__(self, dtype)
    2062
    2063 def _array__(self, dtype: npt.DTypeLike | None = None) -> np.ndarray:
-> 2064     return np.asarray(self._values, dtype=dtype)
    2065
    2066 def _array_wrap__(
ValueError: could not convert string to float: 'F'
```

thyroidDF.csv

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