

Sri Sivasubramaniya Nadar College of Engineering, Chennai

(An Autonomous Institution affiliated to Anna University)

Degree & Branch	B.E. Computer Science & Engineering	Semester	VI
Subject Code & Name	UCS2612 – Machine Learning Algorithms Laboratory		
Academic Year	2025–2026 (Even)	Batch: 2023–2027	Due Date: 27/1/26

Experiment 1: Working with Python packages-Numpy, Scipy, Scikit-Learn, Matplotlibs

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Aim of the Experiment

The aim of this experiment is to explore different real-world datasets and identify the appropriate type of machine learning task associated with each dataset. The experiment also focuses on understanding suitable feature selection techniques and selecting appropriate machine learning algorithms based on the nature of the problem, such as classification or regression.

0.1 Loan

```
[1]: import pandas as pd  
import numpy as np  
import matplotlib.pyplot as plt  
import seaborn as sns  
from sklearn.preprocessing import StandardScaler, MinMaxScaler, □  
    →RobustScaler, LabelBinarizer
```

```
[2]: df = pd.read_csv("loan_dataset.csv")
      df.head()
```

```
loan_status
0    Approved
1   Rejected
2   Rejected
3   Rejected
4   Rejected
```

```
[3]: df.shape
```

```
[3]: (4269, 13)
```

```
[4]: df.columns
```

```
[4]: Index(['loan_id', 'no_of_dependents', 'education', 'self_employed',
       'income_annum', 'loan_amount', 'loan_term', 'cibil_score',
       'residential_assets_value', 'commercial_assets_value',
       'luxury_assets_value', 'bank_asset_value', 'loan_status'],
       dtype='object')
```

```
[5]: df.columns = [col.strip() for col in df.columns]
```

```
[6]: df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 4269 entries, 0 to 4268
Data columns (total 13 columns):
 #   Column           Non-Null Count  Dtype  
 --- 
 0   loan_id          4269 non-null   int64  
 1   no_of_dependents 4269 non-null   int64  
 2   education        4269 non-null   object 
 3   self_employed    4269 non-null   object 
 4   income_annum    4269 non-null   int64  
 5   loan_amount      4269 non-null   int64  
 6   loan_term        4269 non-null   int64  
 7   cibil_score      4269 non-null   int64  
 8   residential_assets_value 4269 non-null   int64  
 9   commercial_assets_value 4269 non-null   int64  
 10  luxury_assets_value 4269 non-null   int64  
 11  bank_asset_value 4269 non-null   int64  
 12  loan_status      4269 non-null   object 
```

dtypes: int64(10), object(3)
memory usage: 433.7+ KB

```
[7]: df.describe()
```

```
[7]:          loan_id  no_of_dependents  income_annum  loan_amount
   ↵loan_term \
count    4269.000000           4269.000000  4.269000e+03  4.269000e+03  4269.
   ↵000000
mean     2135.000000           2.498712  5.059124e+06  1.513345e+07  10.
   ↵900445
std      1232.498479           1.695910  2.806840e+06  9.043363e+06  5.
   ↵709187
min      1.000000             0.000000  2.000000e+05  3.000000e+05  2.
   ↵000000
25%     1068.000000             1.000000  2.700000e+06  7.700000e+06  6.
   ↵000000
50%     2135.000000             3.000000  5.100000e+06  1.450000e+07  10.
   ↵000000
75%     3202.000000             4.000000  7.500000e+06  2.150000e+07  16.
   ↵000000
max     4269.000000             5.000000  9.900000e+06  3.950000e+07  20.
   ↵000000
```

	cibil_score	residential_assets_value	commercial_assets_value	\
count	4269.000000	4.269000e+03	4.269000e+03	
mean	599.936051	7.472617e+06	4.973155e+06	
std	172.430401	6.503637e+06	4.388966e+06	
min	300.000000	-1.000000e+05	0.000000e+00	
25%	453.000000	2.200000e+06	1.300000e+06	
50%	600.000000	5.600000e+06	3.700000e+06	
75%	748.000000	1.130000e+07	7.600000e+06	
max	900.000000	2.910000e+07	1.940000e+07	

	luxury_assets_value	bank_asset_value
count	4.269000e+03	4.269000e+03
mean	1.512631e+07	4.976692e+06
std	9.103754e+06	3.250185e+06
min	3.000000e+05	0.000000e+00
25%	7.500000e+06	2.300000e+06
50%	1.460000e+07	4.600000e+06
75%	2.170000e+07	7.100000e+06
max	3.920000e+07	1.470000e+07

```
[8]: df.isnull().sum()
```

	0
loan_id	0
no_of_dependents	0
education	0

```
self_employed          0
income_annum           0
loan_amount             0
loan_term               0
cibil_score              0
residential_assets_value 0
commercial_assets_value   0
luxury_assets_value       0
bank_asset_value          0
loan_status                0
dtype: int64
```

```
[9]: df.duplicated().sum()
```

```
[9]: np.int64(0)
```

```
[10]: X=df.drop(columns=['loan_amount'])
y=df['loan_amount']
```

```
[11]: X=df.drop(columns=['loan_id'])
```

```
[12]: nums_cols=X.select_dtypes(include=['int64','float64']).columns.tolist()
print("The number columns are: ",nums_cols)
binary_cols=[col for col in X.columns if X[col].nunique()==2]
print("The binary columns are: ",binary_cols)
cat_cols=X.select_dtypes(include='object').columns.tolist()
cat_cols=[col for col in cat_cols if col not in binary_cols]
print("The categorical columns are: ",cat_cols)
```

```
The number columns are:  ['no_of_dependents', 'income_annum', 'loan_amount',
'loan_term', 'cibil_score', 'residential_assets_value',
'commercial_assets_value', 'luxury_assets_value', 'bank_asset_value']
```

```
The binary columns are:  ['education', 'self_employed', 'loan_status']
```

```
The categorical columns are:  []
```

```
[13]: df = df[df['residential_assets_value'] >= 0]
```

```
[14]: money_cols = [
    'income_annum',
    'loan_amount',
    'residential_assets_value',
    'commercial_assets_value',
    'luxury_assets_value',
    'bank_asset_value'
]
```

```
for col in money_cols:  
    df[col] = np.log1p(df[col])
```

```
[15]: X = pd.get_dummies(X, columns=cat_cols, drop_first=True)
```

```
[16]: print(X)
```

	no_of_dependents	education	self_employed	income_annum	\
0	2	Graduate	No	9600000	
1	0	Not Graduate	Yes	4100000	
2	3	Graduate	No	9100000	
3	3	Graduate	No	8200000	
4	5	Not Graduate	Yes	9800000	
...
4264	5	Graduate	Yes	1000000	
4265	0	Not Graduate	Yes	3300000	
4266	2	Not Graduate	No	6500000	
4267	1	Not Graduate	No	4100000	
4268	1	Graduate	No	9200000	
	loan_amount	loan_term	cibil_score	residential_assets_value	\
0	29900000	12	778	2400000	
1	12200000	8	417	2700000	
2	29700000	20	506	7100000	
3	30700000	8	467	18200000	
4	24200000	20	382	12400000	
...
4264	2300000	12	317	2800000	
4265	11300000	20	559	4200000	
4266	23900000	18	457	1200000	
4267	12800000	8	780	8200000	
4268	29700000	10	607	17800000	
	commercial_assets_value	luxury_assets_value	bank_asset_value	\	
0	17600000	22700000	8000000		
1	2200000	8800000	3300000		
2	4500000	33300000	12800000		
3	3300000	23300000	7900000		
4	8200000	29400000	5000000		
...	
4264	500000	3300000	800000		
4265	2900000	11000000	1900000		
4266	12400000	18100000	7300000		
4267	700000	14100000	5800000		

```
4268           11800000          35700000          12000000
```

```
    loan_status
0      Approved
1     Rejected
2     Rejected
3     Rejected
4     Rejected
...
4264    Rejected
4265    Approved
4266    Rejected
4267    Approved
4268    Approved
```

```
[4269 rows x 12 columns]
```

```
[17]: scaler = StandardScaler()
X[nums_cols] = scaler.fit_transform(X[nums_cols])
```

```
[18]: X = pd.get_dummies(X, columns=cat_cols, drop_first=True)
```

```
[19]: print(X)
```

```
      no_of_dependents      education self_employed income_annum \
0            -0.294102        Graduate         No       1.617979
1            -1.473548      Not Graduate        Yes      -0.341750
2             0.295621        Graduate         No       1.439822
3             0.295621        Graduate         No       1.119139
4            1.475067      Not Graduate        Yes       1.689242
...
4264            1.475067        Graduate        Yes      -1.446324
4265            -1.473548      Not Graduate        Yes      -0.626801
4266            -0.294102      Not Graduate        No       0.513405
4267            -0.883825      Not Graduate        No      -0.341750
4268            -0.883825        Graduate        No       1.475453

      loan_amount  loan_term  cibil_score residential_assets_value \
0        1.633052   0.192617     1.032792          -0.780058
1       -0.324414  -0.508091    -1.061051          -0.733924
2        1.610933   1.594031    -0.544840          -0.057300
3        1.721525  -0.508091    -0.771045          1.649637
4        1.002681   1.594031    -1.264055          0.757724
...
4264            ...        ...        ...          ...
4264            -1.419268   0.192617    -1.641063          -0.718546
```

```

4265    -0.423946   1.594031   -0.237434           -0.503257
4266     0.969504   1.243677   -0.829046           -0.964591
4267    -0.258059  -0.508091   1.044393           0.111856
4268     1.610933  -0.157737   0.040972           1.588126

      commercial_assets_value  luxury_assets_value  bank_asset_value \
0                      2.877289          0.832028       0.930304
1                     -0.631921         -0.694993      -0.515936
2                     -0.107818          1.996520       2.407316
3                     -0.381263          0.897943       0.899533
4                     0.735304          1.568075       0.007172
...
4264                      ...
4265                     -1.019301        -1.299210      -1.285213
4266                     -0.472412        -0.453306      -0.946732
4267                     1.692361          0.326683       0.714907
4268                     -0.973727        -0.112748      0.253341
4268                     1.555638          2.260178       2.161148

      loan_status
0      Approved
1     Rejected
2     Rejected
3     Rejected
4     Rejected
...
4264     Rejected
4265     Approved
4266     Rejected
4267     Approved
4268     Approved

```

[4269 rows x 12 columns]

```

[20]: plt.figure(figsize=(18, 12))

# 1 Income Distribution (Histogram)
plt.subplot(3, 3, 1)
plt.hist(df['income_annum'], bins=20)
plt.title("Income Distribution")
plt.xlabel("Annual Income")
plt.ylabel("Frequency")

# 2 Loan Amount Distribution (Histogram)
plt.subplot(3, 3, 2)

```

```

plt.hist(df['loan_amount'], bins=20)
plt.title("Loan Amount Distribution")
plt.xlabel("Loan Amount")
plt.ylabel("Frequency")

# 3 Income vs Loan Amount (Scatter Plot)
plt.subplot(3, 3, 3)
plt.scatter(df['income_annum'], df['loan_amount'])
plt.title("Income vs Loan Amount")
plt.xlabel("Annual Income")
plt.ylabel("Loan Amount")

# 4 Self Employed Distribution (Bar Chart)
plt.subplot(3, 3, 4)
df['self_employed'].value_counts().plot(kind='bar')
plt.title("Self Employed Distribution")
plt.xlabel("Self Employed")
plt.ylabel("Count")

# 5 Education Distribution (Bar Chart)
plt.subplot(3, 3, 5)
df['education'].value_counts().plot(kind='bar')
plt.title("Education Distribution")
plt.xlabel("Education")
plt.ylabel("Count")

# 6 Loan Status Distribution (Bar Chart)
plt.subplot(3, 3, 6)
df['loan_status'].value_counts().plot(kind='bar')
plt.title("Loan Status Distribution")
plt.xlabel("Loan Status")
plt.ylabel("Count")

# 7 CIBIL Score Distribution (Histogram)
plt.subplot(3, 3, 7)
plt.hist(df['cibil_score'], bins=20)
plt.title("CIBIL Score Distribution")
plt.xlabel("CIBIL Score")
plt.ylabel("Frequency")

# 8 CIBIL Score vs Loan Amount (Scatter Plot)
plt.subplot(3, 3, 8)
plt.scatter(df['cibil_score'], df['loan_amount'])
plt.title("CIBIL Score vs Loan Amount")

```

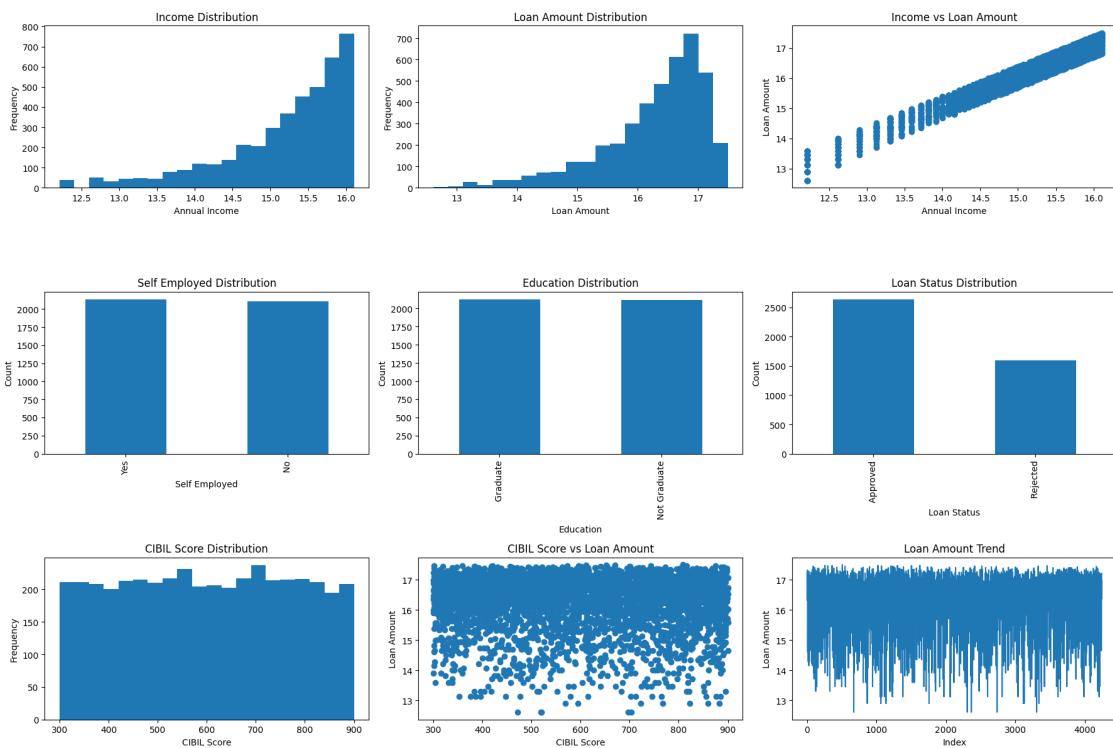
```

plt.xlabel("CIBIL Score")
plt.ylabel("Loan Amount")

# 9 Loan Amount Trend (Line Plot)
plt.subplot(3, 3, 9)
plt.plot(df['loan_amount'].values)
plt.title("Loan Amount Trend")
plt.xlabel("Index")
plt.ylabel("Loan Amount")

plt.tight_layout()
plt.show()

```



```
[21]: X = df.drop(columns=['loan_id', 'loan_amount'])
y = df['loan_amount']
```

```
[22]: cat_cols = X.select_dtypes(include='object').columns.tolist()
print("Categorical columns:", cat_cols)
```

Categorical columns: ['education', 'self_employed', 'loan_status']

```
[23]: X = pd.get_dummies(X, columns=cat_cols, drop_first=True)
```

```
[24]: from sklearn.feature_selection import SelectKBest, f_regression

selector = SelectKBest(score_func=f_regression, k=8)
X_selected = selector.fit_transform(X, y)

selected_features = X.columns[selector.get_support()]
print("Selected Features:", selected_features)

Selected Features: Index(['income_annum', 'loan_term', 'cibil_score',
'residential_assets_value',
'commercial_assets_value', 'luxury_assets_value', 'bank_asset_value',
'education_Non Graduate'],
dtype='object')

[25]: from sklearn.model_selection import train_test_split

X_train, X_test, y_train, y_test = train_test_split(
    X_selected, y, test_size=0.2, random_state=42
)

print("Training set shape:", X_train.shape)
print("Testing set shape:", X_test.shape)

Training set shape: (3392, 8)
Testing set shape: (849, 8)
```

0.2 Hand Written

```
[26]: !ls -lh

total 47M
-rw-r--r-- 1 root root 3.7M Jan 27 17:55 diabetes_prediction_dataset.csv
-rw-r--r-- 1 root root 30M Jan 27 17:55 email_classification.csv
-rw-r--r-- 1 root root 14M Jan 27 17:55 Handwritten_dataset.zip
drwxr-xr-x 2 root root 124K Jan 27 17:59 Img
-rw-r--r-- 1 root root 5.0K Jan 27 17:55 Iris.csv
-rw-r--r-- 1 root root 376K Jan 27 17:55 loan_dataset.csv
drwxr-xr-x 1 root root 4.0K Jan 16 14:24 sample_data

[27]: !file Handwritten_dataset.zip

Handwritten_dataset.zip: Zip archive data, at least v4.5 to extract, ↵
compression
method=deflate
```

```
[28]: !unzip -q Handwritten_dataset.zip

replace Img/img001-001.png? [y]es, [n]o, [A]ll, [N]one, [r]ename: A
```

```
[29]: !ls
```

diabetes_prediction_dataset.csv	Handwritten_dataset.zip	loan_dataset.csv
email_classification.csv	Img	sample_data
english.csv	Iris.csv	

```
[30]: import pandas as pd

df = pd.read_csv("english.csv")
df.head()
```

```
[30]:          image  label
0  Img/img001-001.png      0
1  Img/img001-002.png      0
2  Img/img001-003.png      0
3  Img/img001-004.png      0
4  Img/img001-005.png      0
```

```
[31]: import os
import cv2
import numpy as np

X = []
y = []

base_path = "Img"
missing = 0

for _, row in df.iterrows():
    img_path = os.path.join(base_path, row['image'].split('/')[-1])
    label = row['label']

    img = cv2.imread(img_path, cv2.IMREAD_GRAYSCALE)

    if img is None:
        missing += 1
        continue

    img = cv2.resize(img, (28, 28))
    img = img / 255.0
```

```

X.append(img.flatten())
y.append(label)

X = np.array(X)
y = np.array(y)

print("Loaded images:", X.shape[0])
print("Missing images:", missing)
print("Feature shape:", X.shape)
print("Labels shape:", y.shape)

```

Loaded images: 3410
 Missing images: 0
 Feature shape: (3410, 784)
 Labels shape: (3410,)

[31]:

[32]: `print(X)`

```
[[1. 1. 1. ... 1. 1. 1.]
 [1. 1. 1. ... 1. 1. 1.]
 [1. 1. 1. ... 1. 1. 1.]
 ...
 [1. 1. 1. ... 1. 1. 1.]
 [1. 1. 1. ... 1. 1. 1.]
 [1. 1. 1. ... 1. 1. 1.]]
```

[33]: `print(X.shape)`

```
print(y.shape)
print(np.unique(y))
```

```
(3410, 784)
(3410,)
['0' '1' '2' '3' '4' '5' '6' '7' '8' '9' 'A' 'B' 'C' 'D' 'E' 'F' 'G' 'H'
 'I' 'J' 'K' 'L' 'M' 'N' 'O' 'P' 'Q' 'R' 'S' 'T' 'U' 'V' 'W' 'X' 'Y' 'Z'
 'a' 'b' 'c' 'd' 'e' 'f' 'g' 'h' 'i' 'j' 'k' 'l' 'm' 'n' 'o' 'p' 'q' 'r'
 's' 't' 'u' 'v' 'w' 'x' 'y' 'z']
```

[34]: `from sklearn.preprocessing import StandardScaler`

```
scaler = StandardScaler()
X_scaled= scaler.fit_transform(X)
```

[35]: `from sklearn.decomposition import PCA`

```
pca = PCA(n_components=100)
X_decomposed = pca.fit_transform(X_scaled)
```

```
[36]: from sklearn.preprocessing import LabelEncoder
```

```
le = LabelEncoder()
y_encoded = le.fit_transform(y)
print(y_encoded)
```

```
[ 0  0  0 ... 61 61 61]
```

```
[37]: import matplotlib.pyplot as plt
import seaborn as sns
import numpy as np
from sklearn.decomposition import PCA
```

```
fig, axes = plt.subplots(1, 3, figsize=(9, 3)) # total width 9, each ~3

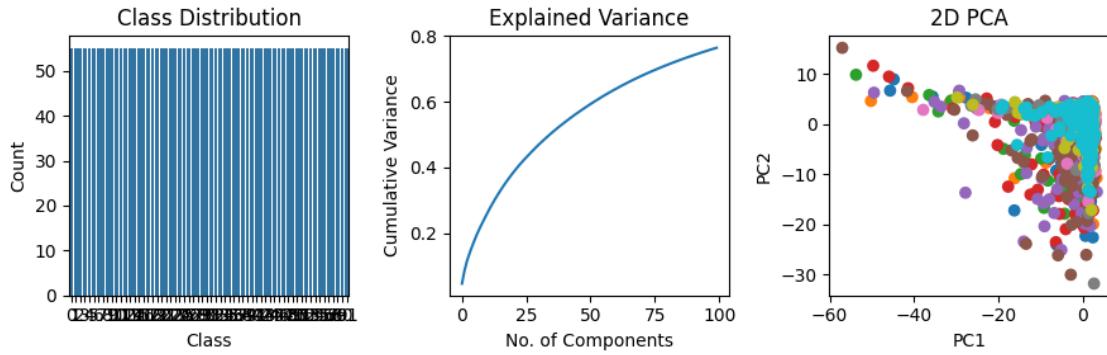
# 1 Class Distribution
sns.countplot(x=y_encoded, ax=axes[0])
axes[0].set_title("Class Distribution")
axes[0].set_xlabel("Class")
axes[0].set_ylabel("Count")

# 2 Cumulative Explained Variance
axes[1].plot(np.cumsum(pca.explained_variance_ratio_))
axes[1].set_title("Explained Variance")
axes[1].set_xlabel("No. of Components")
axes[1].set_ylabel("Cumulative Variance")

# 3 2D PCA Visualization
pca_2d = PCA(n_components=2)
X_2d = pca_2d.fit_transform(X_scaled)

scatter = axes[2].scatter(X_2d[:, 0], X_2d[:, 1],
                           c=y_encoded, cmap='tab10')
axes[2].set_title("2D PCA")
axes[2].set_xlabel("PC1")
axes[2].set_ylabel("PC2")

plt.tight_layout()
plt.show()
```



```
[38]: from sklearn.feature_selection import SelectKBest, f_classif

selector = SelectKBest(score_func=f_classif, k=50)
X_selected = selector.fit_transform(X_decomposed, y_encoded)

print("Selected feature shape:", X_selected.shape)
```

Selected feature shape: (3410, 50)

```
[39]: from sklearn.model_selection import train_test_split

X_train, X_test, y_train, y_test = train_test_split(
    X_selected, y_encoded, test_size=0.2, random_state=42, stratify=y_encoded
)

print(X_train.shape, X_test.shape)
```

(2728, 50) (682, 50)

0.3 Email

[39]:

```
[40]: import pandas as pd
import numpy as np
import seaborn as sns
import matplotlib.pyplot as plt
from sklearn.impute import SimpleImputer
from sklearn.preprocessing import StandardScaler
from sklearn.preprocessing import LabelBinarizer
df = pd.read_csv("email_classification.csv")
```

```
[41]: df.head()
```

```
[41]: Email No. the to ect and for of a you hou ... connevey \r\n
→ jay \
0 Email 1 0 0 1 0 0 0 2 0 0 ... 0 0
1 Email 2 8 13 24 6 6 2 102 1 27 ... 0 0
2 Email 3 0 0 1 0 0 0 8 0 0 ... 0 0
3 Email 4 0 5 22 0 5 1 51 2 10 ... 0 0
4 Email 5 7 6 17 1 5 2 57 0 9 ... 0 0

valued lay infrastructure military allowing ff dry Prediction
0 0 0 0 0 0 0 0 0
1 0 0 0 0 0 1 0 0
2 0 0 0 0 0 0 0 0
3 0 0 0 0 0 0 0 0
4 0 0 0 0 0 1 0 0
```

[5 rows x 3002 columns]

```
[42]: df.describe()
```

```
[42]: the to ect and for \
count 5172.000000 5172.000000 5172.000000 5172.000000 5172.000000
mean 6.640565 6.188128 5.143852 3.075599 3.124710
std 11.745009 9.534576 14.101142 6.045970 4.680522
min 0.000000 0.000000 1.000000 0.000000 0.000000
25% 0.000000 1.000000 1.000000 0.000000 1.000000
50% 3.000000 3.000000 1.000000 1.000000 2.000000
75% 8.000000 7.000000 4.000000 3.000000 4.000000
max 210.000000 132.000000 344.000000 89.000000 47.000000

of a you hou in \
→ ... \
count 5172.000000 5172.000000 5172.000000 5172.000000 5172.000000
→ ...
mean 2.627030 55.517401 2.466551 2.024362 10.600155
→ ...
std 6.229845 87.574172 4.314444 6.967878 19.281892
→ ...
min 0.000000 0.000000 0.000000 0.000000 0.000000
→ ...
25% 0.000000 12.000000 0.000000 0.000000 1.000000
→ ...
```

```

50%      1.000000    28.000000    1.000000    0.000000    5.000000 □
    ↪ ...
75%      2.000000   62.250000    3.000000    1.000000   12.000000 □
    ↪ ...
max     77.000000 1898.000000   70.000000  167.000000 223.000000 □
    ↪ ...

      connevey       jay      valued      lay infrastructure□
    ↪ \
count  5172.000000 5172.000000 5172.000000 5172.000000 5172.000000
mean   0.005027   0.012568   0.010634   0.098028   0.004254
std    0.105788   0.199682   0.116693   0.569532   0.096252
min   0.000000   0.000000   0.000000   0.000000   0.000000
25%   0.000000   0.000000   0.000000   0.000000   0.000000
50%   0.000000   0.000000   0.000000   0.000000   0.000000
75%   0.000000   0.000000   0.000000   0.000000   0.000000
max   4.000000   7.000000   2.000000  12.000000  3.000000

      military    allowing       ff      dry Prediction
count  5172.000000 5172.000000 5172.000000 5172.000000 5172.000000
mean   0.006574   0.004060   0.914733   0.006961   0.290023
std    0.138908   0.072145   2.780203   0.098086   0.453817
min   0.000000   0.000000   0.000000   0.000000   0.000000
25%   0.000000   0.000000   0.000000   0.000000   0.000000
50%   0.000000   0.000000   0.000000   0.000000   0.000000
75%   0.000000   0.000000   1.000000   0.000000   1.000000
max   4.000000   3.000000  114.000000  4.000000  1.000000

[8 rows x 3001 columns]

```

[43]: df.columns

```

[43]: Index(['Email No.', 'the', 'to', 'ect', 'and', 'for', 'of', 'a', 'you', □
    ↪ 'hou',
    ...
    'connevey', 'jay', 'valued', 'lay', 'infrastructure', 'military',
    'allowing', 'ff', 'dry', 'Prediction'],
    dtype='object', length=3002)

```

[44]: df.shape

[44]: (5172, 3002)

[45]: df.drop(columns=["Email No."], inplace=True)

```
[46]: X = df.drop(columns=["Prediction"])
y = df["Prediction"]

[47]: # Numeric columns
num_cols = X.select_dtypes(include=["int64", "float64"]).columns.tolist()
print("The number columns are: ", num_cols)
# Binary columns (rare here, but included for completeness)
binary_cols = [col for col in X.columns if X[col].nunique() == 2]
print("The binary columns are: ", binary_cols)
# Categorical columns (usually none in BoW)
cat_cols = X.select_dtypes(include="object").columns.tolist()
cat_cols = [col for col in cat_cols if col not in binary_cols]
print("The categorical columns are: ", cat_cols)
```

The number columns are: ['the', 'to', 'ect', 'and', 'for', 'of', 'a', ↵ 'you',
 ↵ 'hou', 'in', 'on', 'is', 'this', 'enron', 'i', 'be', 'that', 'will', 'have',
 'with', 'your', 'at', 'we', 's', 'are', 'it', 'by', 'com', 'as', 'from', ↵
 ↵ 'gas',
 'or', 'not', 'me', 'deal', 'if', 'meter', 'hpl', 'please', 're', 'e', 'any',
 'our', 'corp', 'can', 'd', 'all', 'has', 'was', 'know', 'need', 'an',
 'forwarded', 'new', 't', 'may', 'up', 'j', 'mmbtu', 'should', 'do', 'am', ↵
 ↵ 'get',
 'out', 'see', 'no', 'there', 'price', 'daren', 'but', 'been', 'company', ↵
 ↵ 'l',
 'these', 'let', 'so', 'would', 'm', 'into', 'xls', 'farmer', 'attached', ↵
 ↵ 'us',
 'information', 'they', 'message', 'day', 'time', 'my', 'one', 'what', ↵
 ↵ 'only',
 'http', 'th', 'volume', 'mail', 'contract', 'which', 'month', 'more', ↵
 ↵ 'robert',
 'sitara', 'about', 'texas', 'nom', 'energy', 'pec', 'questions', 'www', ↵
 ↵ 'deals',
 'volumes', 'pm', 'ena', 'now', 'their', 'file', 'some', 'email', 'just', ↵
 ↵ 'also',
 'call', 'change', 'other', 'here', 'like', 'b', 'flow', 'net', 'following', ↵
 ↵ 'p',
 'production', 'when', 'over', 'back', 'want', 'original', 'them', 'below', ↵
 ↵ 'o',
 'ticket', 'c', 'he', 'could', 'make', 'inc', 'report', 'march', 'contact',
 'were', 'days', 'list', 'nomination', 'system', 'who', 'april', 'number',
 'sale', 'don', 'its', 'first', 'thanks', 'business', 'help', 'per', ↵
 ↵ 'through',

'july', 'forward', 'font', 'free', 'daily', 'use', 'order', 'today', 'r', ↵
↳ 'had',
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↳ 'w',
'effective', 'well', 'tenaska', 'take', 'june', 'x', 'within', 'nbsp', ↵
↳ 'she',
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↳ 'january',
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↳ 'after',
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↳ 'services',
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↳ 'needs',
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↳ 'future',
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↳ 'click',
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↳ 'reply',
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↳ 'drive',
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↳ 'room',
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↳ 'prc',
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↳ 'near',
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↳ 'american',
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The categorical columns are: []

```

```
[48]: for col in X.columns:  
      print(col,X[col].isnull().sum())
```

the 0
to 0
ect 0
and 0
for 0
of 0
a 0
you 0
hou 0
in 0
on 0
is 0
this 0
enron 0
i 0
be 0
that 0
will 0
have 0
with 0
your 0
at 0
we 0
s 0
are 0
it 0
by 0
com 0
as 0
from 0
gas 0
or 0
not 0
me 0
deal 0
if 0
meter 0
hpl 0
please 0
re 0
e 0
any 0

our 0
corp 0
can 0
d 0
all 0
has 0
was 0
know 0
need 0
an 0
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may 0
up 0
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mmbtu 0
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do 0
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but 0
been 0
company 0
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let 0
so 0
would 0
m 0
into 0
xls 0
farmer 0
attached 0
us 0
information 0
they 0
message 0
day 0

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my 0
one 0
what 0
only 0
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th 0
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mail 0
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which 0
month 0
more 0
robert 0
sitara 0
about 0
texas 0
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energy 0
pec 0
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www 0
deals 0
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pm 0
ena 0
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their 0
file 0
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email 0
just 0
also 0
call 0
change 0
other 0
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flow 0
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p 0
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when 0

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its 0
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today 0
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fw 0
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statements 0
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made 0

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friday 0
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pat 0
width 0
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noms 0

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find 0
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mary 0
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link 0
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people 0
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very 0
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products 0
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such 0
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monday 0
info 0

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lloyd 0
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both 0
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clynes 0

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julie 0
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unify 0
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lannou 0
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tom 0
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meters 0
thru 0
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power 0
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however 0
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field 0
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act 0
pricing 0

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gco 0
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move 0
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state 0
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cd 0
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entex 0
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tomorrow 0
lst 0
counterparty 0
parker 0
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follows 0
valid 0
visit 0
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professional 0
quality 0
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brenda 0
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im 0
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teco 0
fact 0
always 0
too 0
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amount 0
coastal 0
never 0
rodriguez 0

love 0
acton 0
shut 0
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hope 0
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invoice 0
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ray 0
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anyone 0
wanted 0
yet 0
ic 0
scott 0
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charlie 0
soft 0
notice 0
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addition 0
donald 0
lsk 0
wish 0
katherine 0
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ls 0
writeoff 0
locker 0
wil 0
block 0
blood 0
romeo 0
responsibility 0
brennan 0
btu 0
venture 0
connected 0
nascar 0
opinions 0
executed 0
cell 0
flag 0
doctors 0
invoiced 0
marlin 0
coffey 0
nice 0
amazing 0
ii 0
determined 0
handled 0
keeping 0
touch 0
upgrade 0
shipment 0
brought 0
forwarding 0
confidence 0
hesitate 0
seem 0
electronic 0
appreciated 0

deadline 0
franklin 0
heather 0
reasons 0
passed 0
safety 0
procedures 0
payback 0
networks 0
utility 0
count 0
africa 0
exact 0
creating 0
loading 0
processed 0
court 0
tier 0
sender 0
att 0
mailbox 0
glad 0
buddy 0
profiles 0
portion 0
protection 0
compressor 0
okay 0
oba 0
finding 0
heads 0
bar 0
turned 0
remote 0
illustrator 0
oem 0
noticed 0
mails 0
darron 0
nick 0
urbanek 0
jerry 0
barrett 0
ehronline 0
und 0

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improved 0
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moment 0
owners 0
develop 0
installed 0
videos 0
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hearing 0
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busy 0
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shawna 0
iso 0
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ya 0
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round 0
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association 0
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goal 0
bane 0
collection 0
nathan 0
wind 0
piece 0
familiar 0
gore 0
experiencing 0
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mai 0
dewpoint 0
tessie 0
hair 0
bussell 0
diane 0
delivering 0
originally 0
accurate 0
began 0
seven 0
tracking 0
randall 0
gay 0
emerging 0
prescriptions 0
story 0
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florida 0
space 0
ownership 0
european 0
sutton 0
concerned 0
male 0
spent 0

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industries 0
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continues 0
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device 0
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massive 0
eyes 0
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lives 0
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eliminate 0
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died 0
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expressed 0
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books 0
improve 0
implementation 0
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ac 0
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proprietary 0
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advertisement 0
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earnings 0
mortgage 0
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tape 0
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cia 0
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ail 0
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gap 0
earthlink 0
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trades 0
messaging 0
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wil 0
richardson 0
blvd 0
glo 0
seneca 0
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isc 0
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sleep 0
kyle 0
cooperation 0
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motor 0
hopefully 0
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speak 0
mi 0
suggested 0
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uses 0
connect 0
pvr 0
rich 0
places 0
auction 0

po 0
spacer 0
client 0
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royalty 0
amended 0
default 0
living 0
regardless 0
human 0
bringing 0
focused 0
stores 0
variety 0
netherlands 0
leaders 0
bowen 0
salary 0
signed 0
penny 0
loan 0
desktop 0
chase 0
pleasure 0
compare 0
session 0
overall 0
stranger 0
length 0
planned 0
sp 0
darrel 0
raise 0
palestinian 0
expiration 0
serial 0
premiere 0
suzanne 0
reduced 0
players 0
applicable 0
impotence 0
buckley 0
wayne 0
hansen 0

indicative 0
sabre 0
dating 0
winners 0
marshall 0
highest 0
ea 0
presentation 0
allowed 0
square 0
danny 0
gepl 0
hydrocarbon 0
alpine 0
christmas 0
muscle 0
souza 0
relating 0
begins 0
ecf 0
forth 0
answers 0
audit 0
approve 0
lunch 0
types 0
starts 0
difficult 0
le 0
lasts 0
series 0
till 0
edge 0
growing 0
covered 0
shipper 0
sometime 0
republic 0
filter 0
sooner 0
increasing 0
nelson 0
percentage 0
returned 0
pop 0

interface 0
kin 0
experienced 0
prime 0
merger 0
obtain 0
ryan 0
servers 0
attachments 0
achieve 0
effects 0
gov 0
examples 0
procedure 0
explore 0
caribbean 0
rally 0
amounts 0
comfort 0
attempt 0
greatly 0
amelia 0
engel 0
delay 0
fare 0
der 0
cove 0
filing 0
fletcher 0
leth 0
undervalued 0
cents 0
esther 0
hlavaty 0
reid 0
lls 0
troy 0
palmer 0
metals 0
las 0
carter 0
luis 0
migration 0
brief 0
hess 0

therein 0
ur 0
pond 0
joanne 0
community 0
tglo 0
eogi 0
ml 0
wysak 0
felipe 0
errors 0
affect 0
convenient 0
minimal 0
boost 0
incremental 0
decide 0
reserve 0
superior 0
kerr 0
willing 0
quite 0
wild 0
unlimited 0
sans 0
mother 0
computers 0
unfortunately 0
ordered 0
satisfaction 0
priority 0
traded 0
testing 0
portal 0
ward 0
lets 0
aren 0
knows 0
refer 0
shot 0
fda 0
tue 0
saying 0
cancel 0
forecast 0

cousino 0
bass 0
permanent 0
phones 0
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cards 0
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drill 0
towards 0
forget 0
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gloria 0
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doubt 0
staffing 0
excite 0
corel 0
tm 0
enronavailso 0
contacting 0
alland 0
heavy 0
economic 0
nigeria 0
milwaukee 0
phillip 0
curve 0
returns 0
padre 0
kathy 0
buttons 0
sir 0
vary 0
sounds 0
disclose 0
authority 0

flw 0
straight 0
worldnet 0
beemer 0
ooo 0
defs 0
thorough 0
officers 0
flight 0
prefer 0
awesome 0
macintosh 0
feet 0
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formosa 0
porn 0
armstrong 0
driscoll 0
watches 0
newsietter 0
twenty 0
tommy 0
fields 0
method 0
setup 0
allocating 0
initially 0
missed 0
clarification 0
especially 0
dorcheus 0
del 0
millions 0
insurance 0
pooling 0
trial 0
tennessee 0
ellis 0
direction 0
bold 0
catch 0
performing 0
accepted 0
matters 0
batch 0

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continuing 0
winning 0
symbol 0
offsystem 0
decisions 0
produced 0
ended 0
greatest 0
degree 0
solmonson 0
imbalances 0
fall 0
fear 0
hate 0
fight 0
reallocated 0
debt 0
reform 0
australia 0
plain 0
prompt 0
remains 0
ifhsc 0
enhancements 0
connevey 0
jay 0
valued 0
lay 0
infrastructure 0
military 0
allowing 0
ff 0
dry 0
```

```
[49]: imp = SimpleImputer(missing_values=np.nan, strategy="mean")
X = imp.fit_transform(X)
```

```
[50]: for col in num_cols: # example column
    df[col] = np.log1p(df[col])
```

```
[51]: for col in num_cols:
    mean = df[col].mean()
    median = df[col].median()
    mode = df[col].mode()
    std = df[col].std()
```

```

qk = df[col].quantile(0.75)
print(col,mean,median,mode,std,qk)

```

Streaming output truncated to the last 5000 lines.

```

fuels 0.020389538859418087 0.0 0 0.0
Name: fuels, dtype: float64 0.13997318763657846 0.0
getting 0.023759484157514003 0.0 0 0.0
Name: getting, dtype: float64 0.13449182562549095 0.0
advice 0.016515993832734704 0.0 0 0.0
Name: advice, dtype: float64 0.14762453371652678 0.0
why 0.025248619622488967 0.0 0 0.0
Name: why, dtype: float64 0.1444286545474938 0.0
increase 0.0331099979619155 0.0 0 0.0
Name: increase, dtype: float64 0.1695099860217808 0.0
path 0.0356489168671682 0.0 0 0.0
Name: path, dtype: float64 0.2143116778881631 0.0
sell 0.04779035818868961 0.0 0 0.0
Name: sell, dtype: float64 0.20385091033841862 0.0
works 0.03512255515223897 0.0 0 0.0
Name: works, dtype: float64 0.1840373650069639 0.0
issues 0.022161766999969388 0.0 0 0.0
Name: issues, dtype: float64 0.14631722265122094 0.0
three 0.02201200625518102 0.0 0 0.0
Name: three, dtype: float64 0.13849695676739235 0.0
enronxgate 0.016502300338842802 0.0 0 0.0
Name: enronxgate, dtype: float64 0.15004186101384046 0.0
camp 0.030998883854927158 0.0 0 0.0
Name: camp, dtype: float64 0.17723166359846235 0.0
either 0.028002551386169354 0.0 0 0.0
Name: either, dtype: float64 0.14175257005714337 0.0
form 0.19362511784510136 0.0 0 0.0
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security 0.020548733123960793 0.0 0 0.0
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interest 0.03654075512153596 0.0 0 0.0
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financial 0.020141949844075514 0.0 0 0.0
Name: financial, dtype: float64 0.15204285741016738 0.0
family 0.012572307143159005 0.0 0 0.0
Name: family, dtype: float64 0.12489812222592273 0.0
xp 0.18044400788314738 0.0 0 0.0
Name: xp, dtype: float64 0.44785490004479434 0.0
plan 0.1011703736503624 0.0 0 0.0
Name: plan, dtype: float64 0.31761806425759803 0.0
current 0.0660305162176522 0.0 0 0.0

```

Name: current, dtype: float64 0.23451533706390146 0.0
top 0.06917421066261606 0.0 0 0.0
Name: top, dtype: float64 0.2575319282536496 0.0
another 0.023557145354820827 0.0 0 0.0
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src 0.005428048905919923 0.0 0 0.0
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spreadsheet 0.023357426628186885 0.0 0 0.0
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allen 0.02685800972502836 0.0 0 0.0
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wednesday 0.021016490203479482 0.0 0 0.0
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read 0.09638761765683361 0.0 0 0.0
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him 0.02647756541922058 0.0 0 0.0
Name: him, dtype: float64 0.14845117082151163 0.0
working 0.024209534182754948 0.0 0 0.0
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wynne 0.02071586447127134 0.0 0 0.0
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add 0.15097913310318084 0.0 0 0.0
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deliveries 0.03287522097492298 0.0 0 0.0
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buyback 0.017820020647443972 0.0 0 0.0
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allocated 0.022770837292107104 0.0 0 0.0
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firm 0.06626752722370462 0.0 0 0.0
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james 0.024911157400722028 0.0 0 0.0
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marketing 0.023664745011964278 0.0 0 0.0
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tx 0.0535701862877675 0.0 0 0.0
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results 0.019691178764101418 0.0 0 0.0
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stocks 0.01645160886897867 0.0 0 0.0
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calpine 0.015597447430352422 0.0 0 0.0
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might 0.022126078952105208 0.0 0 0.0
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operations 0.019652239137123134 0.0 0 0.0
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position 0.03155218194833392 0.0 0 0.0
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logistics 0.019309710760883666 0.0 0 0.0
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fax 0.04238167918030235 0.0 0 0.0
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cost 0.03390450550316946 0.0 0 0.0
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party 0.049599237436988394 0.0 0 0.0
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zero 0.023523914928906254 0.0 0 0.0
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pops 0.01775602418741175 0.0 0 0.0
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old 0.09505447391825836 0.0 0 0.0
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pt 0.2457270716419808 0.0 0 0.0
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scheduling 0.020070244887969102 0.0 0 0.0
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flowed 0.017986003885081536 0.0 0 0.0
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dollars 0.021071251944025184 0.0 0 0.0
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error 0.025096675195059693 0.0 0 0.0
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better 0.02184556215352488 0.0 0 0.0
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y 2.0187082946726607 2.0794415416798357 0 0.693147
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ees 0.04673868039096017 0.0 0 0.0
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cd 0.032369056135305226 0.0 0 0.0
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entex 0.01487908906507683 0.0 0 0.0
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brenda 0.017015218343135335 0.0 0 0.0
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around 0.021344518905492084 0.0 0 0.0
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windows 0.01917828213560222 0.0 0 0.0
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im 0.4845564114073851 0.0 0 0.0

```
Name: im, dtype: float64 0.6966613374826587 0.6931471805599453
storage 0.014757330137620877 0.0 0 0.0
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accounting 0.019608241208577355 0.0 0 0.0
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never 0.021992059775662837 0.0 0 0.0
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rodriguez 0.017197174272891996 0.0 0 0.0
Name: rodriguez, dtype: float64 0.1197188892092945 0.0
love 0.027987889257832865 0.0 0 0.0
Name: love, dtype: float64 0.15767064152504293 0.0
acton 0.017774385831816984 0.0 0 0.0
Name: acton, dtype: float64 0.12674272505843237 0.0
shut 0.01478881581139233 0.0 0 0.0
Name: shut, dtype: float64 0.12746719302398588 0.0
pipe 0.057603561060691956 0.0 0 0.0
Name: pipe, dtype: float64 0.24925707003711645 0.0
project 0.03235039154273607 0.0 0 0.0
Name: project, dtype: float64 0.19747090402726922 0.0
hope 0.025097274042587648 0.0 0 0.0
Name: hope, dtype: float64 0.1374436520511515 0.0
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limited 0.023327884174804744 0.0 0 0.0
Name: limited, dtype: float64 0.1435879843294075 0.0
invoice 0.02653513337055692 0.0 0 0.0
Name: invoice, dtype: float64 0.17854671104438344 0.0
credit 0.021410873045811143 0.0 0 0.0
Name: credit, dtype: float64 0.14315849926322055 0.0
full 0.03684798801801468 0.0 0 0.0
Name: full, dtype: float64 0.1749621534615472 0.0
survey 0.010243576998424167 0.0 0 0.0
Name: survey, dtype: float64 0.14116942045630607 0.0
ray 0.03139313436159665 0.0 0 0.0
Name: ray, dtype: float64 0.20557520495790627 0.0
carlos 0.0214507544613112 0.0 0 0.0
Name: carlos, dtype: float64 0.14140194473763176 0.0
anyone 0.017731950804863356 0.0 0 0.0
Name: anyone, dtype: float64 0.11833156758922904 0.0
wanted 0.020004327141068368 0.0 0 0.0
Name: wanted, dtype: float64 0.121659956053668 0.0
yet 0.01892999004688849 0.0 0 0.0
Name: yet, dtype: float64 0.12023160546083055 0.0
ic 0.8949226430970085 0.6931471805599453 0 0.0
Name: ic, dtype: float64 0.9303347979455354 1.3862943611198906
scott 0.019248042124218344 0.0 0 0.0
Name: scott, dtype: float64 0.14511220846109904 0.0
years 0.01641038561769672 0.0 0 0.0
Name: years, dtype: float64 0.12070713674813048 0.0
charlie 0.01753635898125963 0.0 0 0.0
Name: charlie, dtype: float64 0.11646238406686461 0.0
soft 0.05649591948497075 0.0 0 0.0
Name: soft, dtype: float64 0.2706410405490817 0.0
notice 0.028692800401072246 0.0 0 0.0
Name: notice, dtype: float64 0.14390823661188412 0.0
advise 0.03354048215845704 0.0 0 0.0
Name: advise, dtype: float64 0.1551233788943303 0.0
addition 0.0605526315370919 0.0 0 0.0
Name: addition, dtype: float64 0.21973947155789772 0.0
donald 0.01823909798539442 0.0 0 0.0
Name: donald, dtype: float64 0.12771133346195646 0.0
lsk 0.014952559291767815 0.0 0 0.0
Name: lsk, dtype: float64 0.11503520037458342 0.0
wish 0.02174353150887795 0.0 0 0.0
Name: wish, dtype: float64 0.1294751859819391 0.0
katherine 0.0176130520836966 0.0 0 0.0
Name: katherine, dtype: float64 0.1478577767991637 0.0
website 0.018642083222627535 0.0 0 0.0
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Name: website, dtype: float64 0.1354872618368423 0.0
hplnl 0.012730041817275804 0.0 0 0.0
Name: hplnl, dtype: float64 0.11892847229220743 0.0
schumack 0.013088388616451408 0.0 0 0.0
Name: schumack, dtype: float64 0.12160850500458613 0.0
prescription 0.01972206305326546 0.0 0 0.0
Name: prescription, dtype: float64 0.13579649947130984 0.0
cover 0.03771528550346114 0.0 0 0.0
Name: cover, dtype: float64 0.1832456578014087 0.0
shares 0.01236451698127884 0.0 0 0.0
Name: shares, dtype: float64 0.13517835491440947 0.0
cash 0.020539380149427883 0.0 0 0.0
Name: cash, dtype: float64 0.14096975942311776 0.0
imbalance 0.0149942162574926 0.0 0 0.0
Name: imbalance, dtype: float64 0.13920564048680525 0.0
united 0.01490795466278905 0.0 0 0.0
Name: united, dtype: float64 0.12499739181878958 0.0
handle 0.02174679463152836 0.0 0 0.0
Name: handle, dtype: float64 0.13327694647672536 0.0
big 0.02632213713535227 0.0 0 0.0
Name: big, dtype: float64 0.15289183166140255 0.0
everyone 0.019190135516068622 0.0 0 0.0
Name: everyone, dtype: float64 0.12047195332423066 0.0
style 0.006574293978348073 0.0 0 0.0
Name: style, dtype: float64 0.10341508894146659 0.0
clear 0.029771121672635688 0.0 0 0.0
Name: clear, dtype: float64 0.15281954824306967 0.0
producer 0.01851829234463419 0.0 0 0.0
Name: producer, dtype: float64 0.13055797805264321 0.0
weekend 0.01692236667537538 0.0 0 0.0
Name: weekend, dtype: float64 0.12395367739411858 0.0
city 0.03317602020437467 0.0 0 0.0
Name: city, dtype: float64 0.17993393603200905 0.0
requested 0.01704342681364061 0.0 0 0.0
Name: requested, dtype: float64 0.11708889856898454 0.0
stone 0.025532181347010546 0.0 0 0.0
Name: stone, dtype: float64 0.14019671887119778 0.0
left 0.01835171059149031 0.0 0 0.0
Name: left, dtype: float64 0.13273756330210226 0.0
payment 0.021096427032125525 0.0 0 0.0
Name: payment, dtype: float64 0.14250795569725955 0.0
mobil 0.027872294805655926 0.0 0 0.0
Name: mobil, dtype: float64 0.17148119994229427 0.0
shows 0.015526071334624057 0.0 0 0.0
Name: shows, dtype: float64 0.11061767520430102 0.0

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small 0.01856318417200723 0.0 0 0.0
Name: small, dtype: float64 0.12344920494505443 0.0
confirmed 0.013644618454911928 0.0 0 0.0
Name: confirmed, dtype: float64 0.11879443126897755 0.0
technology 0.015216012082661582 0.0 0 0.0
Name: technology, dtype: float64 0.12444685231589572 0.0
meet 0.046775745147118984 0.0 0 0.0
Name: meet, dtype: float64 0.2204395008463716 0.0
extend 0.030063355615274023 0.0 0 0.0
Name: extend, dtype: float64 0.1729212551492974 0.0
life 0.02131759652816917 0.0 0 0.0
Name: life, dtype: float64 0.13941241694015638 0.0
intended 0.015466768231150601 0.0 0 0.0
Name: intended, dtype: float64 0.11727294287310967 0.0
sherlyn 0.01577906690835352 0.0 0 0.0
Name: sherlyn, dtype: float64 0.13983466189842533 0.0
schedule 0.04756596805386592 0.0 0 0.0
Name: schedule, dtype: float64 0.21421191095728342 0.0
else 0.017994039494432793 0.0 0 0.0
Name: else, dtype: float64 0.11369421607684357 0.0
letter 0.033974628161242366 0.0 0 0.0
Name: letter, dtype: float64 0.19691796414400398 0.0
box 0.022277905124488084 0.0 0 0.0
Name: box, dtype: float64 0.15216456868982292 0.0
bill 0.03958560177325958 0.0 0 0.0
Name: bill, dtype: float64 0.18943671647250837 0.0
richard 0.016594200321875037 0.0 0 0.0
Name: richard, dtype: float64 0.14211700309455055 0.0
lamphier 0.012072457036286443 0.0 0 0.0
Name: lamphier, dtype: float64 0.11425736469969927 0.0
complete 0.03902562821966709 0.0 0 0.0
Name: complete, dtype: float64 0.18214881199151983 0.0
ever 0.17360472922180253 0.0 0 0.0
Name: ever, dtype: float64 0.3856896033227352 0.0
release 0.019773136821278743 0.0 0 0.0
Name: release, dtype: float64 0.14913447540764935 0.0
newsletter 0.015040651399890859 0.0 0 0.0
Name: newsletter, dtype: float64 0.1360723833143485 0.0
anita 0.014445264906893107 0.0 0 0.0
Name: anita, dtype: float64 0.14009845530980639 0.0
clem 0.01908112897361696 0.0 0 0.0
Name: clem, dtype: float64 0.13784376913560892 0.0
having 0.016797943472796967 0.0 0 0.0
Name: having, dtype: float64 0.10990768848185176 0.0
herod 0.0135587215729661 0.0 0 0.0
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Name: herod, dtype: float64 0.11886754909979946 0.0
beginning 0.01781447390048989 0.0 0 0.0
Name: beginning, dtype: float64 0.11247029735507091 0.0
papayoti 0.011040403236956686 0.0 0 0.0
Name: papayoti, dtype: float64 0.11663863709418709 0.0
try 0.07277339708024344 0.0 0 0.0
Name: try, dtype: float64 0.2557131856577948 0.0
mike 0.02316936676593196 0.0 0 0.0
Name: mike, dtype: float64 0.14738727398036033 0.0
enter 0.0872986457112962 0.0 0 0.0
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estimates 0.015185095137970625 0.0 0 0.0
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location 0.0402355306213964 0.0 0 0.0
Name: location, dtype: float64 0.21475851863779633 0.0
cut 0.04171799584224059 0.0 0 0.0
Name: cut, dtype: float64 0.20190951917639324 0.0
question 0.11222199726356626 0.0 0 0.0
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things 0.016709470713855132 0.0 0 0.0
Name: things, dtype: float64 0.11120208296937165 0.0
personal 0.017323736959048087 0.0 0 0.0
Name: personal, dtype: float64 0.12912531409391295 0.0
feedback 0.01280280566339855 0.0 0 0.0
Name: feedback, dtype: float64 0.12338447091558365 0.0
cialis 0.01988919440057601 0.0 0 0.0
Name: cialis, dtype: float64 0.149152556365079 0.0
found 0.021789077926378485 0.0 0 0.0
Name: found, dtype: float64 0.13148391281993774 0.0
area 0.02241710871044938 0.0 0 0.0
Name: area, dtype: float64 0.1380705926364745 0.0
dow 0.09741323821429723 0.0 0 0.0
Name: dow, dtype: float64 0.32346825560822084 0.0
terms 0.015227803282702762 0.0 0 0.0
Name: terms, dtype: float64 0.11659231082294944 0.0
central 0.016032823783720562 0.0 0 0.0
Name: central, dtype: float64 0.12456251404534388 0.0
necessary 0.019344526021911192 0.0 0 0.0
Name: necessary, dtype: float64 0.12058877588691992 0.0
man 0.26766348841145327 0.0 0 0.0
Name: man, dtype: float64 0.5329153598791105 0.0
run 0.03256731446562376 0.0 0 0.0
Name: run, dtype: float64 0.15927842932280223 0.0
reason 0.020128269751165218 0.0 0 0.0
Name: reason, dtype: float64 0.1214715497521498 0.0

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third 0.016089551010198006 0.0 0 0.0
Name: third, dtype: float64 0.11488234472764976 0.0
midcon 0.01332357719424037 0.0 0 0.0
Name: midcon, dtype: float64 0.13062368703762853 0.0
charge 0.023966072070442587 0.0 0 0.0
Name: charge, dtype: float64 0.15530932793332725 0.0
president 0.012443583066389156 0.0 0 0.0
Name: president, dtype: float64 0.12229868625291954 0.0
de 1.1135840894600233 1.0986122886681096 0 0.0
Name: de, dtype: float64 0.9715044611442082 1.791759469228055
listed 0.015427522009336704 0.0 0 0.0
Name: listed, dtype: float64 0.10997402763900935 0.0
meds 0.017536795374677956 0.0 0 0.0
Name: meds, dtype: float64 0.12572580647385959 0.0
thomas 0.015253665616457504 0.0 0 0.0
Name: thomas, dtype: float64 0.1189481364481129 0.0
thought 0.02173345494253243 0.0 0 0.0
Name: thought, dtype: float64 0.13025501925858066 0.0
capital 0.013797664587893147 0.0 0 0.0
Name: capital, dtype: float64 0.11074190305568402 0.0
added 0.016294934738832433 0.0 0 0.0
Name: added, dtype: float64 0.1099630770203118 0.0
ask 0.07857412419585211 0.0 0 0.0
Name: ask, dtype: float64 0.28999693634158147 0.0
weeks 0.014342671955392981 0.0 0 0.0
Name: weeks, dtype: float64 0.10694697928525342 0.0
investing 0.012286837891256874 0.0 0 0.0
Name: investing, dtype: float64 0.11863257867944654 0.0
commercial 0.016831011444601918 0.0 0 0.0
Name: commercial, dtype: float64 0.120824482179816 0.0
star 0.09236233854652509 0.0 0 0.0
Name: star, dtype: float64 0.2923193829717059 0.0
several 0.016330186393278285 0.0 0 0.0
Name: several, dtype: float64 0.11085023120447907 0.0
easy 0.0181736050883757 0.0 0 0.0
Name: easy, dtype: float64 0.11887912785891185 0.0
view 0.06872376025809335 0.0 0 0.0
Name: view, dtype: float64 0.2556797508392568 0.0
cannot 0.015192333431547746 0.0 0 0.0
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extended 0.014797307542624899 0.0 0 0.0
Name: extended, dtype: float64 0.11466985095292725 0.0
lauri 0.016153503271167005 0.0 0 0.0
Name: lauri, dtype: float64 0.12632754078703434 0.0
beaumont 0.013383785740077392 0.0 0 0.0
```

```
Name: beaumont, dtype: float64 0.12364081361533326 0.0
union 0.01434838115645669 0.0 0 0.0
Name: union, dtype: float64 0.1183867245841964 0.0
times 0.017778579199452856 0.0 0 0.0
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open 0.025869685230761257 0.0 0 0.0
Name: open, dtype: float64 0.14732274565364656 0.0
cause 0.055062946156255045 0.0 0 0.0
Name: cause, dtype: float64 0.2135998955404552 0.0
monthly 0.014623406950682476 0.0 0 0.0
Name: monthly, dtype: float64 0.11470085805582211 0.0
action 0.05725925459714831 0.0 0 0.0
Name: action, dtype: float64 0.24157358423315695 0.0
offers 0.02029295502006247 0.0 0 0.0
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industry 0.01344091301381497 0.0 0 0.0
Name: industry, dtype: float64 0.11724016960322496 0.0
states 0.017145538003508966 0.0 0 0.0
Name: states, dtype: float64 0.1248090580525211 0.0
side 0.07539725218288125 0.0 0 0.0
Name: side, dtype: float64 0.2639144619438793 0.0
mailto 0.013526078451043165 0.0 0 0.0
Name: mailto, dtype: float64 0.10474299459021118 0.0
probably 0.014934371645008519 0.0 0 0.0
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neal 0.012935963596540579 0.0 0 0.0
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second 0.020191785618715884 0.0 0 0.0
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stephanie 0.011571072120443133 0.0 0 0.0
Name: stephanie, dtype: float64 0.12950636160858095 0.0
download 0.014981234953773027 0.0 0 0.0
Name: download, dtype: float64 0.13340267437102174 0.0
flash 0.009788085868978032 0.0 0 0.0
Name: flash, dtype: float64 0.10480059485556316 0.0
agree 0.07450997883491435 0.0 0 0.0
Name: agree, dtype: float64 0.2656207809047436 0.0
mcf 0.01708901743020437 0.0 0 0.0
Name: mcf, dtype: float64 0.12285607973797315 0.0
transfer 0.015581313667651319 0.0 0 0.0
Name: transfer, dtype: float64 0.1290229078310416 0.0
doing 0.014767502693470363 0.0 0 0.0
Name: doing, dtype: float64 0.10595245408553151 0.0
important 0.016016819819602172 0.0 0 0.0
Name: important, dtype: float64 0.11191335449400149 0.0
```

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basis 0.015533321171737486 0.0 0 0.0
Name: basis, dtype: float64 0.11297003756334506 0.0
different 0.020060168321623585 0.0 0 0.0
Name: different, dtype: float64 0.126378258796646 0.0
final 0.026686935862318024 0.0 0 0.0
Name: final, dtype: float64 0.1543160979711524 0.0
koch 0.007545391689691184 0.0 0 0.0
Name: koch, dtype: float64 0.10643662441400702 0.0
exxon 0.012266085911037885 0.0 0 0.0
Name: exxon, dtype: float64 0.1263096061414343 0.0
remove 0.03475913319213398 0.0 0 0.0
Name: remove, dtype: float64 0.18063745568451217 0.0
microsoft 0.021276299220904044 0.0 0 0.0
Name: microsoft, dtype: float64 0.15984968586184675 0.0
interested 0.014496844264526387 0.0 0 0.0
Name: interested, dtype: float64 0.10371008633869182 0.0
application 0.017425549406985857 0.0 0 0.0
Name: application, dtype: float64 0.1362248470504986 0.0
sept 0.04656228517879467 0.0 0 0.0
Name: sept, dtype: float64 0.22107208218146218 0.0
mg 0.025692744096828635 0.0 0 0.0
Name: mg, dtype: float64 0.1943357559124137 0.0
write 0.020274560720130327 0.0 0 0.0
Name: write, dtype: float64 0.13937129564525244 0.0
lp 0.13854888164063156 0.0 0 0.0
Name: lp, dtype: float64 0.3554392510025759 0.0
east 0.06330691477430528 0.0 0 0.0
Name: east, dtype: float64 0.26360667327851406 0.0
requirements 0.013015395030083182 0.0 0 0.0
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code 0.014505173541649327 0.0 0 0.0
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value 0.020561211569656384 0.0 0 0.0
Name: value, dtype: float64 0.1398124357696802 0.0
thank 0.2719932271718061 0.0 0 0.0
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together 0.015022844403950356 0.0 0 0.0
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exploration 0.010539885265499847 0.0 0 0.0
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mid 0.05169203419369678 0.0 0 0.0
Name: mid, dtype: float64 0.23760756245852965 0.0
dfarmer 0.014084928365562919 0.0 0 0.0
Name: dfarmer, dtype: float64 0.10952507549364525 0.0
everything 0.014532314115681406 0.0 0 0.0
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Name: everything, dtype: float64 0.10486733497572616 0.0
receipt 0.01449626514546141 0.0 0 0.0
Name: receipt, dtype: float64 0.11511611705749285 0.0
thu 0.053712672771187756 0.0 0 0.0
Name: thu, dtype: float64 0.22549833558391283 0.0
afternoon 0.014375521730488765 0.0 0 0.0
Name: afternoon, dtype: float64 0.10354082663517997 0.0
late 0.08768292872524042 0.0 0 0.0
Name: late, dtype: float64 0.2796965056225486 0.0
enserch 0.012979706982218998 0.0 0 0.0
Name: enserch, dtype: float64 0.09844551058875327 0.0
coming 0.020004327141068368 0.0 0 0.0
Name: coming, dtype: float64 0.12089383337941711 0.0
bank 0.02660747962615353 0.0 0 0.0
Name: bank, dtype: float64 0.180827136617417 0.0
response 0.015973675281451702 0.0 0 0.0
Name: response, dtype: float64 0.10965880265668762 0.0
tell 0.03943892230057066 0.0 0 0.0
Name: tell, dtype: float64 0.19068463274282285 0.0
shipping 0.015690974800230472 0.0 0 0.0
Name: shipping, dtype: float64 0.12087559253626205 0.0
night 0.02943976338336701 0.0 0 0.0
Name: night, dtype: float64 0.16159941692267343 0.0
events 0.012574397873777786 0.0 0 0.0
Name: events, dtype: float64 0.11809134896911962 0.0
cynthia 0.015022637750777503 0.0 0 0.0
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lsp 0.018164908246868824 0.0 0 0.0
Name: lsp, dtype: float64 0.14112994056168457 0.0
close 0.027886076809895098 0.0 0 0.0
Name: close, dtype: float64 0.15350316374385586 0.0
legal 0.01634905089570751 0.0 0 0.0
Name: legal, dtype: float64 0.12191370001442758 0.0
country 0.012921682119022879 0.0 0 0.0
Name: country, dtype: float64 0.11082019555235462 0.0
direct 0.053047553134504856 0.0 0 0.0
Name: direct, dtype: float64 0.21624159409725227 0.0
expected 0.014110103453663257 0.0 0 0.0
Name: expected, dtype: float64 0.11148984036265121 0.0
ces 0.25464066092136767 0.0 0 0.0
Name: ces, dtype: float64 0.5162317860167704 0.0
corporation 0.01787979026278321 0.0 0 0.0
Name: corporation, dtype: float64 0.14577168454085745 0.0
options 0.01214518822688228 0.0 0 0.0
Name: options, dtype: float64 0.1169170073244432 0.0

```
really 0.014676409858469295 0.0 0 0.0
Name: really, dtype: float64 0.10852227659100679 0.0
voip 0.005542135683459881 0.0 0 0.0
Name: voip, dtype: float64 0.11132448441058211 0.0
nominated 0.012727672593452645 0.0 0 0.0
Name: nominated, dtype: float64 0.11098685078814743 0.0
etc 0.03486185176206947 0.0 0 0.0
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latest 0.013824564699673626 0.0 0 0.0
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edward 0.014875921931930382 0.0 0 0.0
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victor 0.01831359586165417 0.0 0 0.0
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redeliveries 0.015369497146140583 0.0 0 0.0
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baumbach 0.012263465834978653 0.0 0 0.0
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public 0.023995371524493676 0.0 0 0.0
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completed 0.013410028724650924 0.0 0 0.0
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registered 0.013007720343087732 0.0 0 0.0
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zone 0.020882079986233835 0.0 0 0.0
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fill 0.020224036546283717 0.0 0 0.0
Name: fill, dtype: float64 0.13583425158426504 0.0
away 0.014411209778352948 0.0 0 0.0
Name: away, dtype: float64 0.11424327815775583 0.0

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computer 0.01412372780397401 0.0 0 0.0
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systems 0.013922689175078962 0.0 0 0.0
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industrial 0.013818693044500292 0.0 0 0.0
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mentioned 0.01463348351702799 0.0 0 0.0
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told 0.013303368318949793 0.0 0 0.0
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therefore 0.014934371645008519 0.0 0 0.0
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growth 0.01249706957765466 0.0 0 0.0
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sold 0.014841095127366545 0.0 0 0.0
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track 0.026280844408467532 0.0 0 0.0
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reports 0.010048611503945776 0.0 0 0.0
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south 0.023877381114791582 0.0 0 0.0
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rd 0.5533049991636307 0.0 0 0.0
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jim 0.015680898233884955 0.0 0 0.0
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costs 0.010285647797651249 0.0 0 0.0
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el 0.9078545121369992 0.6931471805599453 0 0.0
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browser 0.013369067869141363 0.0 0 0.0
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donna 0.01704630928547223 0.0 0 0.0
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stacey 0.017579721716119257 0.0 0 0.0
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begin 0.03393246312143865 0.0 0 0.0
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china 0.005816452613279915 0.0 0 0.0
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duty 0.010294487039144519 0.0 0 0.0
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approximately 0.013338838170104814 0.0 0 0.0
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showing 0.012119968939718716 0.0 0 0.0
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unit 0.050438406344001555 0.0 0 0.0
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jones 0.024675063380569497 0.0 0 0.0
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hard 0.059013626488397836 0.0 0 0.0
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verify 0.012967228536523412 0.0 0 0.0
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updated 0.014782427217579244 0.0 0 0.0
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eol 0.015044154984792871 0.0 0 0.0
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cs 0.10927666713929018 0.0 0 0.0
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orders 0.010420528217393966 0.0 0 0.0
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talk 0.026996533918240282 0.0 0 0.0
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server 0.013095302971871628 0.0 0 0.0
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pathed 0.011795488021671349 0.0 0 0.0
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strong 0.016776796314654698 0.0 0 0.0
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bryan 0.014482400332899062 0.0 0 0.0
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directly 0.012688895420583988 0.0 0 0.0
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risks 0.009979187635063577 0.0 0 0.0
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whole 0.016227051505999956 0.0 0 0.0
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users 0.009559227120291993 0.0 0 0.0
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purchases 0.01134283200098694 0.0 0 0.0
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oo 0.40331469089623506 0.0 0 0.0
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karen 0.012731659307915665 0.0 0 0.0
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luong 0.009565617283488332 0.0 0 0.0
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level 0.017781842322103267 0.0 0 0.0
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riley 0.01467118124988714 0.0 0 0.0
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easttexas 0.00769587602629216 0.0 0 0.0
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poorman 0.01140085686418306 0.0 0 0.0
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bellamy 0.01282291459702636 0.0 0 0.0
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assistance 0.012140340269118918 0.0 0 0.0
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nothing 0.012767291613180309 0.0 0 0.0
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gif 0.011610451895426982 0.0 0 0.0
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thing 0.09615753943258039 0.0 0 0.0
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retail 0.012640865214845186 0.0 0 0.0
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didn 0.011663873261658504 0.0 0 0.0
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valley 0.017658117908715576 0.0 0 0.0
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allow 0.02373452726612283 0.0 0 0.0
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spoke 0.015490819680178203 0.0 0 0.0
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tabs 0.011281038620036965 0.0 0 0.0
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johnson 0.010309400019717087 0.0 0 0.0
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employee 0.02209099116684832 0.0 0 0.0
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wants 0.012107272297313967 0.0 0 0.0
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albrecht 0.005427626593117363 0.0 0 0.0
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meaning 0.009872090835944118 0.0 0 0.0
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expectations 0.01068122785000765 0.0 0 0.0
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mx 0.012115726318721562 0.0 0 0.0
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moved 0.025231075022320856 0.0 0 0.0

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cernosek 0.012016615855731227 0.0 0 0.0
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calls 0.007390998657882657 0.0 0 0.0
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walker 0.009343263967288065 0.0 0 0.0
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iferc 0.01965374342701466 0.0 0 0.0
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upon 0.01763542524518674 0.0 0 0.0
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enerfin 0.004798604273384879 0.0 0 0.0
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jennifer 0.011333398481232604 0.0 0 0.0
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staff 0.016901777149266016 0.0 0 0.0
Name: staff, dtype: float64 0.12713959280192674 0.0
pc 0.032205571734217904 0.0 0 0.0
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target 0.012077086797340644 0.0 0 0.0
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waha 0.009534664960335379 0.0 0 0.0
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cp 0.02828470876246218 0.0 0 0.0
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partner 0.022332183735472782 0.0 0 0.0
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channel 0.013511700984021498 0.0 0 0.0
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takes 0.012463358559258531 0.0 0 0.0
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sat 0.05375745440880959 0.0 0 0.0
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others 0.01239263705365766 0.0 0 0.0
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hear 0.030836900570977335 0.0 0 0.0
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went 0.014051860393757972 0.0 0 0.0
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listing 0.010711457549044201 0.0 0 0.0
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early 0.016666544372413834 0.0 0 0.0
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enough 0.010855771488541254 0.0 0 0.0
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sally 0.008220137061420218 0.0 0 0.0
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starting 0.01186200715317949 0.0 0 0.0
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distribution 0.01174771625954614 0.0 0 0.0
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tejas 0.009689916709478292 0.0 0 0.0
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transactions 0.009267269654041815 0.0 0 0.0
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earl 0.03838048922884641 0.0 0 0.0
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superty 0.00966932718336893 0.0 0 0.0
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reserves 0.009198351180263057 0.0 0 0.0
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cornhusker 0.01331306423447652 0.0 0 0.0
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content 0.019992628029784926 0.0 0 0.0
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solution 0.02153291917166137 0.0 0 0.0
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shell 0.010800366701404367 0.0 0 0.0
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jpg 0.005015053566946948 0.0 0 0.0
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print 0.01769315136645227 0.0 0 0.0
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drive 0.018852957955616503 0.0 0 0.0
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pain 0.01918915650275305 0.0 0 0.0
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half 0.017488628881118188 0.0 0 0.0
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herrera 0.007796321835826141 0.0 0 0.0
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saturday 0.010787670058999615 0.0 0 0.0
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moopid 0.0008321858262189036 0.0 0 0.0
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hotlist 0.0008321858262189036 0.0 0 0.0
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super 0.032821588279630554 0.0 0 0.0
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wells 0.007780362070770978 0.0 0 0.0
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text 0.01733183649592555 0.0 0 0.0
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tisdale 0.009383962427025237 0.0 0 0.0
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svcs 0.008334582224236532 0.0 0 0.0
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record 0.026595381831276736 0.0 0 0.0

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fast 0.018307624264818072 0.0 0 0.0
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ua 0.33956952815887365 0.0 0 0.0
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publication 0.009080890616403804 0.0 0 0.0
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kevin 0.010718925582866797 0.0 0 0.0
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safe 0.016454129003375142 0.0 0 0.0
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approval 0.014089950320972221 0.0 0 0.0
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allocate 0.032238985658013794 0.0 0 0.0
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document 0.019830045898307152 0.0 0 0.0
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eric 0.08437353084084838 0.0 0 0.0
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hakemack 0.009596595992773092 0.0 0 0.0
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expired 0.009103227431735745 0.0 0 0.0
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five 0.008668320127312843 0.0 0 0.0
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colspan 0.0025630477092728277 0.0 0 0.0
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holmes 0.008410358340773619 0.0 0 0.0
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yesterday 0.009773323313947601 0.0 0 0.0
Name: yesterday, dtype: float64 0.0854205454496862 0.0
medical 0.0087968924984639 0.0 0 0.0
Name: medical, dtype: float64 0.09068589222579593 0.0
pinion 0.01600506242863974 0.0 0 0.0
Name: pinion, dtype: float64 0.1307846757365748 0.0
sorry 0.015725790061258 0.0 0 0.0
Name: sorry, dtype: float64 0.10487907997253705 0.0
men 0.38394019765189374 0.0 0 0.0
Name: men, dtype: float64 0.6635483241544183 0.6931471805599453
leave 0.010600211581352097 0.0 0 0.0
Name: leave, dtype: float64 0.0895844470555245 0.0
pass 0.04190362733772899 0.0 0 0.0
Name: pass, dtype: float64 0.19202098525133454 0.0
video 0.012029312498135977 0.0 0 0.0
Name: video, dtype: float64 0.10689417524310653 0.0
gomes 0.006954335046666826 0.0 0 0.0
Name: gomes, dtype: float64 0.09323284551708011 0.0
doctor 0.01464356008337351 0.0 0 0.0
Name: doctor, dtype: float64 0.10616214448962215 0.0
projects 0.00876948952865943 0.0 0 0.0
Name: projects, dtype: float64 0.08556889613333477 0.0
limit 0.03156283462274728 0.0 0 0.0
Name: limit, dtype: float64 0.17579629247837655 0.0
air 0.05358323818904016 0.0 0 0.0
Name: air, dtype: float64 0.2458006716229823 0.0
knle 0.0008071127745351192 0.0 0 0.0
Name: knle, dtype: float64 0.058044821400271014 0.0
pharmacy 0.009214691596137012 0.0 0 0.0
Name: pharmacy, dtype: float64 0.09252301174705203 0.0
confirmation 0.012873952018881437 0.0 0 0.0
Name: confirmation, dtype: float64 0.10199949830567154 0.0
opportunity 0.009740473538851817 0.0 0 0.0
Name: opportunity, dtype: float64 0.08890792734647969 0.0
involve 0.01771854465126177 0.0 0 0.0
Name: involve, dtype: float64 0.12379264173201646 0.0
notify 0.008567150725966257 0.0 0 0.0
Name: notify, dtype: float64 0.0793520817121301 0.0
gtc 0.006172993196762864 0.0 0 0.0
Name: gtc, dtype: float64 0.09043766158726141 0.0
```

```
class 0.012668428101679823 0.0 0 0.0
Name: class, dtype: float64 0.11626834310370937 0.0
ken 0.07310653613579181 0.0 0 0.0
Name: ken, dtype: float64 0.2658631903391681 0.0
started 0.008567150725966258 0.0 0 0.0
Name: started, dtype: float64 0.08118669870636824 0.0
outage 0.010598576525181655 0.0 0 0.0
Name: outage, dtype: float64 0.12118886652015674 0.0
confidential 0.012208659895369721 0.0 0 0.0
Name: confidential, dtype: float64 0.10275445426116449 0.0
room 0.01764876493418267 0.0 0 0.0
Name: room, dtype: float64 0.1326775753716661 0.0
blue 0.011703533943369936 0.0 0 0.0
Name: blue, dtype: float64 0.1136982024778329 0.0
estimated 0.009569019025322686 0.0 0 0.0
Name: estimated, dtype: float64 0.09135417486425523 0.0
officer 0.01020626513243876 0.0 0 0.0
Name: officer, dtype: float64 0.10524869800820096 0.0
reach 0.015424901933277469 0.0 0 0.0
Name: reach, dtype: float64 0.10742057611725124 0.0
messages 0.007590719910482556 0.0 0 0.0
Name: messages, dtype: float64 0.09036073546168562 0.0
database 0.00960602951252743 0.0 0 0.0
Name: database, dtype: float64 0.09695767945184092 0.0
words 0.010022354438756476 0.0 0 0.0
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prc 0.004580789309115229 0.0 0 0.0
Name: prc, dtype: float64 0.0860134518018468 0.0
tracked 0.008488754533369938 0.0 0 0.0
Name: tracked, dtype: float64 0.07847035085830475 0.0
transition 0.008698986219767724 0.0 0 0.0
Name: transition, dtype: float64 0.08864708722573594 0.0
light 0.029841602715984957 0.0 0 0.0
Name: light, dtype: float64 0.16752316287681773 0.0
national 0.025820079748711023 0.0 0 0.0
Name: national, dtype: float64 0.18319565758387382 0.0
hot 0.051172383358866466 0.0 0 0.0
Name: hot, dtype: float64 0.2375576524216808 0.0
offering 0.010474303485323503 0.0 0 0.0
Name: offering, dtype: float64 0.09695004153999179 0.0
gulf 0.00809720996380667 0.0 0 0.0
Name: gulf, dtype: float64 0.09216677591285216 0.0
provides 0.009158850415581796 0.0 0 0.0
Name: provides, dtype: float64 0.08130395429521425 0.0
iit 0.010323681497234788 0.0 0 0.0
```

```
Name: iit, dtype: float64 0.10182474134847759 0.0
demokritos 0.006581221123193904 0.0 0 0.0
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mckay 0.008688691456713044 0.0 0 0.0
Name: mckay, dtype: float64 0.08548524887548588 0.0
average 0.008107286530152186 0.0 0 0.0
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wide 0.025395335441336087 0.0 0 0.0
Name: wide, dtype: float64 0.1487697595271347 0.0
heard 0.009426888768466538 0.0 0 0.0
Name: heard, dtype: float64 0.08463349338861374 0.0
files 0.011923339338089253 0.0 0 0.0
Name: files, dtype: float64 0.10161491860199111 0.0
dan 0.046274759005352495 0.0 0 0.0
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billed 0.008033694096256004 0.0 0 0.0
Name: billed, dtype: float64 0.08568051692822416 0.0
mccoy 0.01029495608808976 0.0 0 0.0
Name: mccoy, dtype: float64 0.10047033297138744 0.0
rc 0.35121175492518486 0.0 0 0.0
Name: rc, dtype: float64 0.5728365832121087 0.6931471805599453
exactly 0.008946435046543104 0.0 0 0.0
Name: exactly, dtype: float64 0.07987973651008964 0.0
middle 0.008412988239720108 0.0 0 0.0
Name: middle, dtype: float64 0.10126842332225175 0.0
select 0.02209807713477279 0.0 0 0.0
Name: select, dtype: float64 0.14140212338693559 0.0
bruce 0.009489979786135189 0.0 0 0.0
Name: bruce, dtype: float64 0.09966718175306351 0.0
louisiana 0.008946435046543104 0.0 0 0.0
Name: louisiana, dtype: float64 0.08103454980890273 0.0
receiving 0.009047604447889691 0.0 0 0.0
Name: receiving, dtype: float64 0.08189945898646445 0.0
california 0.0037017619143037126 0.0 0 0.0
Name: california, dtype: float64 0.07863596792822294 0.0
event 0.025834042535512133 0.0 0 0.0
Name: event, dtype: float64 0.16568925771123233 0.0
roll 0.030561668123578703 0.0 0 0.0
Name: roll, dtype: float64 0.17325349768157386 0.0
mops 0.007272505379043078 0.0 0 0.0
Name: mops, dtype: float64 0.08652359756047162 0.0
william 0.02253320263590485 0.0 0 0.0
Name: william, dtype: float64 0.1440853859623255 0.0
appear 0.01874274976595014 0.0 0 0.0
Name: appear, dtype: float64 0.12262092445397477 0.0
```

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perfect 0.012953888847527484 0.0 0 0.0
Name: perfect, dtype: float64 0.10328309814376997 0.0
html 0.019477425996470798 0.0 0 0.0
Name: html, dtype: float64 0.1581493810660198 0.0
features 0.01005760609320233 0.0 0 0.0
Name: features, dtype: float64 0.10480491486581713 0.0
join 0.01794828642375941 0.0 0 0.0
Name: join, dtype: float64 0.13181172058526347 0.0
greater 0.006843089078974723 0.0 0 0.0
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sunday 0.009775943390006835 0.0 0 0.0
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pick 0.011872301916234172 0.0 0 0.0
Name: pick, dtype: float64 0.09976709812279774 0.0
featured 0.008825112512505484 0.0 0 0.0
Name: featured, dtype: float64 0.08636724948631035 0.0
cdnow 0.004107339745998681 0.0 0 0.0
Name: cdnow, dtype: float64 0.09850513565336244 0.0
prize 0.007702573231757084 0.0 0 0.0
Name: prize, dtype: float64 0.10498551183226772 0.0
reveffo 0.004813312170167846 0.0 0 0.0
Name: reveffo, dtype: float64 0.09074160773362529 0.0
olsen 0.008208455931498774 0.0 0 0.0
Name: olsen, dtype: float64 0.08659935704293195 0.0
expects 0.007583688270078287 0.0 0 0.0
Name: expects, dtype: float64 0.07912387424835678 0.0
estimate 0.03461154287090094 0.0 0 0.0
Name: estimate, dtype: float64 0.18896719466478026 0.0
near 0.01453253231239057 0.0 0 0.0
Name: near, dtype: float64 0.11026090595517796 0.0
common 0.009336232326883796 0.0 0 0.0
Name: common, dtype: float64 0.09402956952072675 0.0
package 0.00909559694380352 0.0 0 0.0
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title 0.01847715749147869 0.0 0 0.0
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whether 0.009158850415581794 0.0 0 0.0
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bought 0.007942601261254933 0.0 0 0.0
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evergreen 0.006516382816302678 0.0 0 0.0
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difference 0.00928279302567865 0.0 0 0.0
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elizabeth 0.008271110555749092 0.0 0 0.0
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Name: elizabeth, dtype: float64 0.10158684056833599 0.0
history 0.00927271645933313 0.0 0 0.0
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monitor 0.009332969204233384 0.0 0 0.0
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advised 0.009080454222985476 0.0 0 0.0
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result 0.03322699732973454 0.0 0 0.0
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sources 0.039496311970080626 0.0 0 0.0
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school 0.010258624993634398 0.0 0 0.0
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unaccounted 0.006807368375583627 0.0 0 0.0
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paragraph 0.008577227292311774 0.0 0 0.0
Name: paragraph, dtype: float64 0.08247410129099336 0.0
turn 0.04097767280639738 0.0 0 0.0
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kimberly 0.007663026251196377 0.0 0 0.0
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increased 0.007861803189308545 0.0 0 0.0
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communication 0.016192094071670448 0.0 0 0.0
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members 0.01443376479039405 0.0 0 0.0
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concerns 0.008197942971734927 0.0 0 0.0
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uncertainties 0.00870378997846786 0.0 0 0.0
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associated 0.009181623624332063 0.0 0 0.0
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reduce 0.01219291832702372 0.0 0 0.0
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committed 0.008142319987888875 0.0 0 0.0
Name: committed, dtype: float64 0.0764005131797615 0.0
wi 0.8186287346277769 0.6931471805599453 0 0.0
Name: wi, dtype: float64 0.8521416792547013 1.3862943611198906
asap 0.009404115559716271 0.0 0 0.0
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goes 0.008571137440429278 0.0 0 0.0
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trader 0.012970776320488648 0.0 0 0.0
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waiting 0.009750550105197334 0.0 0 0.0
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canada 0.015804563519927643 0.0 0 0.0
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worth 0.01693239904265767 0.0 0 0.0
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representative 0.011002269110679213 0.0 0 0.0
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claim 0.01451162606298862 0.0 0 0.0
Name: claim, dtype: float64 0.13816710506454258 0.0
ceo 0.008369361792255302 0.0 0 0.0
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london 0.00685090460768681 0.0 0 0.0
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discussions 0.008845265645196517 0.0 0 0.0
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php 0.012349492515507194 0.0 0 0.0
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brazos 0.006063930911711666 0.0 0 0.0
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trevino 0.006524231500944065 0.0 0 0.0
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calling 0.006697913896177326 0.0 0 0.0
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involved 0.007929904618850184 0.0 0 0.0
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la 0.7242995655182559 0.6931471805599453 0 0.0
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gift 0.007165132424663267 0.0 0 0.0
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southern 0.0073031714714979585 0.0 0 0.0
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groups 0.00806414199200172 0.0 0 0.0
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hour 0.03724117363920812 0.0 0 0.0
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tufco 0.007793701759766909 0.0 0 0.0
Name: tufco, dtype: float64 0.08423712366319415 0.0
previously 0.009080454222985476 0.0 0 0.0
Name: previously, dtype: float64 0.080444197228653 0.0
voice 0.04087476040000865 0.0 0 0.0
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normally 0.004468849427255887 0.0 0 0.0
Name: normally, dtype: float64 0.0779483065599315 0.0
resolve 0.015514956990252802 0.0 0 0.0

```
Name: resolve, dtype: float64 0.12377977045088943 0.0
efforts 0.007295278587793346 0.0 0 0.0
Name: efforts, dtype: float64 0.07834446181171878 0.0
nor 0.0953382694365187 0.0 0 0.0
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recent 0.01700050047219931 0.0 0 0.0
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purchasing 0.007328128362889129 0.0 0 0.0
Name: purchasing, dtype: float64 0.07560351429350423 0.0
county 0.00684789283767486 0.0 0 0.0
Name: county, dtype: float64 0.08715948999175772 0.0
ok 0.24540091219485782 0.0 0 0.0
Name: ok, dtype: float64 0.4681587785062483 0.6931471805599453
express 0.016019439895661406 0.0 0 0.0
Name: express, dtype: float64 0.11959665278503713 0.0
generic 0.009212289716786944 0.0 0 0.0
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according 0.01369294740258132 0.0 0 0.0
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respond 0.016651664047368175 0.0 0 0.0
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situation 0.008890812062697054 0.0 0 0.0
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hold 0.028657560290162705 0.0 0 0.0
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lot 0.046348716645784924 0.0 0 0.0
Name: lot, dtype: float64 0.21869223975545873 0.0
interconnect 0.010511738822410261 0.0 0 0.0
Name: interconnect, dtype: float64 0.09952782741551464 0.0
word 0.031163510844145415 0.0 0 0.0
Name: word, dtype: float64 0.17326541572872725 0.0
came 0.018373542011718806 0.0 0 0.0
Name: came, dtype: float64 0.12056202367808078 0.0
west 0.029739616270401253 0.0 0 0.0
Name: west, dtype: float64 0.1594930373002698 0.0
role 0.023310177120527006 0.0 0 0.0
Name: role, dtype: float64 0.16111369011184626 0.0
opportunities 0.007960570711305064 0.0 0 0.0
Name: opportunities, dtype: float64 0.0849321516068541 0.0
corporate 0.010051656429887024 0.0 0 0.0
Name: corporate, dtype: float64 0.09592972534952038 0.0
remain 0.023394906164336874 0.0 0 0.0
Name: remain, dtype: float64 0.1346080424161246 0.0
similar 0.008868038853946785 0.0 0 0.0
Name: similar, dtype: float64 0.08017169597122442 0.0
```

```
readers 0.007775732309716779 0.0 0 0.0
Name: readers, dtype: float64 0.08319553780202775 0.0
suggestions 0.008309188939427031 0.0 0 0.0
Name: suggestions, dtype: float64 0.07544235361780581 0.0
subscribers 0.00837005207539155 0.0 0 0.0
Name: subscribers, dtype: float64 0.08888115185724053 0.0
projections 0.007388991498853648 0.0 0 0.0
Name: projections, dtype: float64 0.09005635575213823 0.0
lead 0.02845812622484359 0.0 0 0.0
Name: lead, dtype: float64 0.16722153328362804 0.0
learn 0.013654650822194218 0.0 0 0.0
Name: learn, dtype: float64 0.10789378146446874 0.0
resolved 0.008343621012556313 0.0 0 0.0
Name: resolved, dtype: float64 0.09370320657017459 0.0
agreed 0.008031074020196772 0.0 0 0.0
Name: agreed, dtype: float64 0.07703246457700516 0.0
sec 0.09919590567478076 0.0 0 0.0
Name: sec, dtype: float64 0.35048802788002903 0.0
head 0.06935695572322019 0.0 0 0.0
Name: head, dtype: float64 0.2560052727180486 0.0
enjoy 0.011634068412503968 0.0 0 0.0
Name: enjoy, dtype: float64 0.09683011911304908 0.0
img 0.007026202456882863 0.0 0 0.0
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rnd 0.006589194552119941 0.0 0 0.0
Name: rnd, dtype: float64 0.08949949517932541 0.0
responsible 0.007760851984671124 0.0 0 0.0
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outstanding 0.008668320127312844 0.0 0 0.0
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member 0.03589961777346007 0.0 0 0.0
Name: member, dtype: float64 0.1774569462985153 0.0
panenergy 0.004241260812087777 0.0 0 0.0
Name: panenergy, dtype: float64 0.08327004728586507 0.0
american 0.008649751829734759 0.0 0 0.0
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cass 0.009596377796063926 0.0 0 0.0
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register 0.02103133787299822 0.0 0 0.0
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promotions 0.006779573211424057 0.0 0 0.0
Name: promotions, dtype: float64 0.08887645796319735 0.0
parties 0.012618610308401446 0.0 0 0.0
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winfree 0.007122744634254706 0.0 0 0.0
```

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Name: winfree, dtype: float64 0.08029091041772064 0.0
selling 0.008410358340773619 0.0 0 0.0
Name: selling, dtype: float64 0.07876707890425283 0.0
usage 0.006913592387866429 0.0 0 0.0
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appropriate 0.009760844868252015 0.0 0 0.0
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assignment 0.00879384757252265 0.0 0 0.0
Name: assignment, dtype: float64 0.10044524816782194 0.0
media 0.03393019752990954 0.0 0 0.0
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believes 0.00718403262010124 0.0 0 0.0
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require 0.03984724367942621 0.0 0 0.0
Name: require, dtype: float64 0.1833845171705069 0.0
submit 0.013000078311619197 0.0 0 0.0
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model 0.007989732513868421 0.0 0 0.0
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spinnaker 0.005749747293798432 0.0 0 0.0
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copano 0.0051305532252548455 0.0 0 0.0
Name: copano, dtype: float64 0.08889028716680575 0.0
facilities 0.006577234408730883 0.0 0 0.0
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opinion 0.010363057517631398 0.0 0 0.0
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length 0.005317840716253557 0.0 0 0.0
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filing 0.006774987649433084 0.0 0 0.0
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fletcher 0.0017948273516556325 0.0 0 0.0

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staffing 0.0025214074610138857 0.0 0      0.0
Name: staffing, dtype: float64 0.0516737585270986 0.0
excite 0.004476072123803406 0.0 0      0.0
Name: excite, dtype: float64 0.06485733694539605 0.0
corel 0.006873755171429603 0.0 0      0.0
Name: corel, dtype: float64 0.08652123068104177 0.0
tm 0.12304186698676695 0.0 0      0.0
Name: tm, dtype: float64 0.3703614315938176 0.0
enronavailso 0.003082441058174544 0.0 0      0.0
Name: enronavailso, dtype: float64 0.046124778964151784 0.0
contacting 0.0030824410581745433 0.0 0      0.0
```

Name: contacting, dtype: float64 0.0480969977472816 0.0
alland 0.0032063836682713984 0.0 0 0.0
Name: alland, dtype: float64 0.051413627539619484 0.0
heavy 0.0034288756036556065 0.0 0 0.0
Name: heavy, dtype: float64 0.053133898892345356 0.0
economic 0.006534089870580419 0.0 0 0.0
Name: economic, dtype: float64 0.07022475513613649 0.0
nigeria 0.0025402745005225604 0.0 0 0.0
Name: nigeria, dtype: float64 0.05935029972420874 0.0
milwaukee 0.0008742824008215468 0.0 0 0.0
Name: milwaukee, dtype: float64 0.04567607414110453 0.0
phillip 0.008581432203483959 0.0 0 0.0
Name: phillip, dtype: float64 0.09450080590615192 0.0
curve 0.002845068797744681 0.0 0 0.0
Name: curve, dtype: float64 0.05524792547967445 0.0
returns 0.002647533753751645 0.0 0 0.0
Name: returns, dtype: float64 0.045682662841593696 0.0
padre 0.0021749729155328234 0.0 0 0.0
Name: padre, dtype: float64 0.04843020112189876 0.0
kathy 0.00566427526173462 0.0 0 0.0
Name: kathy, dtype: float64 0.07797192754978761 0.0
buttons 0.0021502564863932483 0.0 0 0.0
Name: buttons, dtype: float64 0.05048369138095805 0.0
sir 0.010660682522961512 0.0 0 0.0
Name: sir, dtype: float64 0.09847270265726808 0.0
vary 0.0040205752932711445 0.0 0 0.0
Name: vary, dtype: float64 0.05437873824558157 0.0
sounds 0.003082441058174544 0.0 0 0.0
Name: sounds, dtype: float64 0.04612477896415202 0.0
disclose 0.005327917282599075 0.0 0 0.0
Name: disclose, dtype: float64 0.0626401138308292 0.0
authority 0.0030143396286329057 0.0 0 0.0
Name: authority, dtype: float64 0.050380289443113485 0.0
flw 0.001761977576559848 0.0 0 0.0
Name: flw, dtype: float64 0.05014776742570746 0.0
straight 0.004334160063656422 0.0 0 0.0
Name: straight, dtype: float64 0.057711159495336284 0.0
worldnet 0.0009812787732470663 0.0 0 0.0
Name: worldnet, dtype: float64 0.04486984709735883 0.0
beemer 0.0034187990373100896 0.0 0 0.0
Name: beemer, dtype: float64 0.053622390824589576 0.0
ooo 0.006509132979189245 0.0 0 0.0
Name: ooo, dtype: float64 0.08837415943824183 0.0
defs 0.0025010361316136877 0.0 0 0.0
Name: defs, dtype: float64 0.05043069309938896 0.0

```
thorough 0.0041545944697135165 0.0 0 0.0
Name: thorough, dtype: float64 0.05350736727664012 0.0
officers 0.0026703069625019127 0.0 0 0.0
Name: officers, dtype: float64 0.04769549399420987 0.0
flight 0.00420014088721405 0.0 0 0.0
Name: flight, dtype: float64 0.06622190842593788 0.0
prefer 0.008645546918562577 0.0 0 0.0
Name: prefer, dtype: float64 0.08137397276635305 0.0
awesome 0.0032164602346169153 0.0 0 0.0
Name: awesome, dtype: float64 0.04711224762821178 0.0
macintosh 0.0013629649731739823 0.0 0 0.0
Name: macintosh, dtype: float64 0.046596311271584805 0.0
feet 0.0029006917815907326 0.0 0 0.0
Name: feet, dtype: float64 0.05252412542187626 0.0
constitutes 0.003082441058174544 0.0 0 0.0
Name: constitutes, dtype: float64 0.04612477896415239 0.0
formosa 0.0014492540494749143 0.0 0 0.0
Name: formosa, dtype: float64 0.049712243962777215 0.0
porn 0.0046021984165411645 0.0 0 0.0
Name: porn, dtype: float64 0.06082626156433913 0.0
armstrong 0.003072364491829027 0.0 0 0.0
Name: armstrong, dtype: float64 0.05051029353769447 0.0
driscoll 0.0021342302567324265 0.0 0 0.0
Name: driscoll, dtype: float64 0.05071452869457007 0.0
watches 0.003072364491829027 0.0 0 0.0
Name: watches, dtype: float64 0.05406423650514487 0.0
newsietter 0.0026146839786558604 0.0 0 0.0
Name: newsietter, dtype: float64 0.050085541176162485 0.0
twenty 0.0031279874756750792 0.0 0 0.0
Name: twenty, dtype: float64 0.05003362368007411 0.0
tommy 0.00313828223872976 0.0 0 0.0
Name: tommy, dtype: float64 0.05945089943696642 0.0
fields 0.003105214266924811 0.0 0 0.0
Name: fields, dtype: float64 0.05001255685380379 0.0
method 0.004700965938537683 0.0 0 0.0
Name: method, dtype: float64 0.061486650926920294 0.0
setup 0.0033732526198095546 0.0 0 0.0
Name: setup, dtype: float64 0.049995190065155105 0.0
allocating 0.0036185177639440303 0.0 0 0.0
Name: allocating, dtype: float64 0.049955522492451464 0.0
initially 0.0028927988978861203 0.0 0 0.0
Name: initially, dtype: float64 0.04564314776688668 0.0
missed 0.003082441058174544 0.0 0 0.0
Name: missed, dtype: float64 0.046124778964151465 0.0
clarification 0.003105214266924812 0.0 0 0.0
```

Name: clarification, dtype: float64 0.05183706975577499 0.0
especially 0.003428875603655606 0.0 0 0.0
Name: especially, dtype: float64 0.04951322344466954 0.0
dorcheus 0.0021084121220409104 0.0 0 0.0
Name: dorcheus, dtype: float64 0.048573908550121565 0.0
del 0.15983944784412016 0.0 0 0.0
Name: del, dtype: float64 0.39352305046984615 0.0
millions 0.004043348502021413 0.0 0 0.0
Name: millions, dtype: float64 0.05607975648143604 0.0
insurance 0.003171132013825545 0.0 0 0.0
Name: insurance, dtype: float64 0.05308664720663566 0.0
pooling 0.002255770987479212 0.0 0 0.0
Name: pooling, dtype: float64 0.048588531427052176 0.0
trial 0.017568185058945446 0.0 0 0.0
Name: trial, dtype: float64 0.14914836774661275 0.0
tennessee 0.0034744220211561415 0.0 0 0.0
Name: tennessee, dtype: float64 0.0548928224265345 0.0
ellis 0.004182215636227147 0.0 0 0.0
Name: ellis, dtype: float64 0.0674822082327483 0.0
direction 0.004523802223944846 0.0 0 0.0
Name: direction, dtype: float64 0.05966619975426842 0.0
bold 0.003360774174113969 0.0 0 0.0
Name: bold, dtype: float64 0.05781555113343074 0.0
catch 0.0038309331329827207 0.0 0 0.0
Name: catch, dtype: float64 0.05222431241639772 0.0
performing 0.002781552930194016 0.0 0 0.0
Name: performing, dtype: float64 0.046680733935636175 0.0
accepted 0.002837175914040069 0.0 0 0.0
Name: accepted, dtype: float64 0.046164889515025 0.0
matters 0.0032164602346169153 0.0 0 0.0
Name: matters, dtype: float64 0.04711224762821205 0.0
batch 0.004128994531731164 0.0 0 0.0
Name: batch, dtype: float64 0.06937543078215115 0.0
continuing 0.0041545944697135165 0.0 0 0.0
Name: continuing, dtype: float64 0.053507367276639635 0.0
winning 0.0034698364591651677 0.0 0 0.0
Name: winning, dtype: float64 0.060661488453912886 0.0
symbol 0.005729974811926188 0.0 0 0.0
Name: symbol, dtype: float64 0.06759976290285666 0.0
offsystem 0.0024554897141131527 0.0 0 0.0
Name: offsystem, dtype: float64 0.04655458538745569 0.0
decisions 0.002758779721443749 0.0 0 0.0
Name: decisions, dtype: float64 0.04462220888247576 0.0
produced 0.0035856679888482453 0.0 0 0.0
Name: produced, dtype: float64 0.05226325502534489 0.0

```
ended 0.04171965803234607 0.0 0 0.0
Name: ended, dtype: float64 0.192414097994909 0.0
greatest 0.002758779721443749 0.0 0 0.0
Name: greatest, dtype: float64 0.04462220888247798 0.0
degree 0.00503492203832316 0.0 0 0.0
Name: degree, dtype: float64 0.06955580606034842 0.0
solmonson 0.004066121710771679 0.0 0 0.0
Name: solmonson, dtype: float64 0.05609816401277893 0.0
imbalances 0.0035504163344023914 0.0 0 0.0
Name: imbalances, dtype: float64 0.05560693791681225 0.0
fall 0.010474085288614338 0.0 0 0.0
Name: fall, dtype: float64 0.09410791579959417 0.0
fear 0.004010498726925628 0.0 0 0.0
Name: fear, dtype: float64 0.05814516834573098 0.0
hate 0.010486563734309926 0.0 0 0.0
Name: hate, dtype: float64 0.08874714640516411 0.0
fight 0.0032063836682713984 0.0 0 0.0
Name: fight, dtype: float64 0.055768948566991064 0.0
reallocated 0.003105214266924811 0.0 0 0.0
Name: reallocated, dtype: float64 0.04811891400732794 0.0
debt 0.004010498726925628 0.0 0 0.0
Name: debt, dtype: float64 0.05814516834572917 0.0
reform 0.0034288756036556065 0.0 0 0.0
Name: reform, dtype: float64 0.04951322344466695 0.0
australia 0.0035504163344023923 0.0 0 0.0
Name: australia, dtype: float64 0.06179104491326762 0.0
plain 0.02303900544357456 0.0 0 0.0
Name: plain, dtype: float64 0.14128587507881424 0.0
prompt 0.005998013164810931 0.0 0 0.0
Name: prompt, dtype: float64 0.06618729355558108 0.0
remains 0.0027587797214437488 0.0 0 0.0
Name: remains, dtype: float64 0.04462220888247615 0.0
ifhsc 0.00334040284471377 0.0 0 0.0
Name: ifhsc, dtype: float64 0.05230101826040116 0.0
enhancements 0.002249024008389766 0.0 0 0.0
Name: enhancements, dtype: float64 0.055329342957279426 0.0
connevey 0.0027362247094026458 0.0 0 0.0
Name: connevey, dtype: float64 0.05443809033081992 0.0
jay 0.006306151129904892 0.0 0 0.0
Name: jay, dtype: float64 0.08544374314245708 0.0
valued 0.006926070833562015 0.0 0 0.0
Name: valued, dtype: float64 0.07377590767468337 0.0
lay 0.04988327773717531 0.0 0 0.0
Name: lay, dtype: float64 0.23091992457281557 0.0
infrastructure 0.0023567221921166346 0.0 0 0.0
```

```
Name: infrastructure, dtype: float64 0.049575836290276766 0.0  
military 0.0032981637489268734 0.0 0 0.0  
Name: military, dtype: float64 0.06234939194638986 0.0  
allowing 0.002680383528847429 0.0 0 0.0  
Name: allowing, dtype: float64 0.045132025111615785 0.0  
ff 0.3893108045186561 0.0 0 0.0  
Name: ff, dtype: float64 0.6033060217089345 0.6931471805599453  
dry 0.004544173553345044 0.0 0 0.0  
Name: dry, dtype: float64 0.05916983623716239 0.0
```

```
[52]: scaler = StandardScaler()  
X_scaled = scaler.fit_transform(X)
```

```
[53]: import numpy as np  
from sklearn.preprocessing import LabelBinarizer  
  
mask = ~np.isnan(y)  
y = y[mask]  
  
lb = LabelBinarizer(neg_label=0, pos_label=1)  
y_bin = lb.fit_transform(y)
```

```
[54]: print(X_scaled,y_bin)  
  
[[-0.56544926 -0.64908256 -0.2938948 ... -0.0562853 -0.32904848  
-0.07097072]  
[ 0.11575699 0.71450797 1.33733653 ... -0.0562853 0.03067224  
-0.07097072]  
[-0.56544926 -0.64908256 -0.2938948 ... -0.0562853 -0.32904848  
-0.07097072]  
...  
[-0.56544926 -0.64908256 -0.2938948 ... -0.0562853 -0.32904848  
-0.07097072]  
[-0.3951477 0.0851585 -0.2938948 ... -0.0562853 0.03067224  
-0.07097072]  
[ 1.30786793 1.86831533 -0.0102024 ... -0.0562853 -0.32904848  
-0.07097072]] [[0]  
[0]  
...  
[1]  
[1]  
[0]]
```

```
[55]: counts = df['Prediction'].value_counts()
percent = df['Prediction'].value_counts(normalize=True) * 100

print(counts)
print(percent)
```

```
Prediction
0    3672
1    1500
Name: count, dtype: int64
Prediction
0    70.99768
1    29.00232
Name: proportion, dtype: float64
```

```
[56]: fig, axes = plt.subplots(2, 2, figsize=(10, 8))

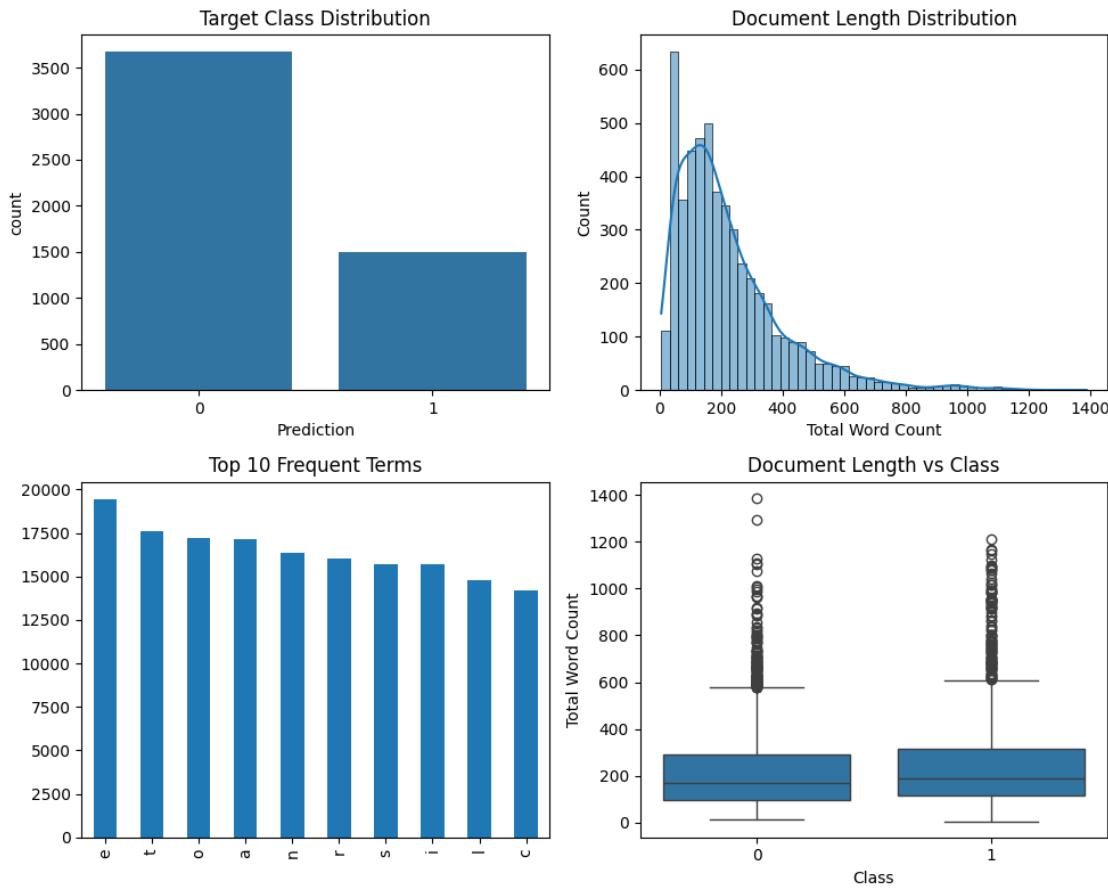
# 1 Target Class Distribution
sns.countplot(x=df['Prediction'], ax=axes[0, 0])
axes[0, 0].set_title("Target Class Distribution")

# 2 Document Length Distribution
doc_length = df.drop(columns=['Prediction']).sum(axis=1)
sns.histplot(doc_length, bins=50, kde=True, ax=axes[0, 1])
axes[0, 1].set_title("Document Length Distribution")
axes[0, 1].set_xlabel("Total Word Count")

# 3 Top Frequent Terms
word_freq = df.drop(columns=['Prediction']).sum() .
    sort_values(ascending=False)
word_freq.head(10).plot(kind='bar', ax=axes[1, 0])
axes[1, 0].set_title("Top 10 Frequent Terms")

# 4 Document Length vs Class
sns.boxplot(x=df['Prediction'], y=doc_length, ax=axes[1, 1])
axes[1, 1].set_title("Document Length vs Class")
axes[1, 1].set_xlabel("Class")
axes[1, 1].set_ylabel("Total Word Count")

plt.tight_layout()
plt.show()
```



```
[57]: from sklearn.feature_selection import SelectKBest, f_classif

selector = SelectKBest(score_func=f_classif, k=500)
X_selected = selector.fit_transform(X_scaled, y_bin.ravel())

print("Selected features shape:", X_selected.shape)
```

Selected features shape: (5172, 500)

```
[58]: from sklearn.model_selection import train_test_split

X_train, X_test, y_train, y_test = train_test_split(
    X_selected, y_bin, test_size=0.2, random_state=42, stratify=y_bin
)

print(X_train.shape, X_test.shape)
```

(4137, 500) (1035, 500)

0.4 Diabetes

```
[59]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn.preprocessing import StandardScaler, MinMaxScaler, RobustScaler, LabelBinarizer
```

```
[60]: df=pd.read_csv("diabetes_prediction_dataset.csv")
```

```
[61]: df.head()
```

```
[61]:   gender    age  hypertension  heart_disease  smoking_history    bmi \
0  Female  80.0          0            1        never  25.19
1  Female  54.0          0            0      No Info  27.32
2    Male  28.0          0            0        never  27.32
3  Female  36.0          0            0      current  23.45
4    Male  76.0          1            1      current  20.14

      HbA1c_level  blood_glucose_level  diabetes
0           6.6             140            0
1           6.6              80            0
2           5.7             158            0
3           5.0             155            0
4           4.8             155            0
```

```
[62]: df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 100000 entries, 0 to 99999
Data columns (total 9 columns):
 #   Column           Non-Null Count  Dtype  
--- 
 0   gender          100000 non-null   object 
 1   age              100000 non-null   float64
 2   hypertension     100000 non-null   int64  
 3   heart_disease    100000 non-null   int64  
 4   smoking_history  100000 non-null   object 
 5   bmi              100000 non-null   float64
 6   HbA1c_level     100000 non-null   float64
 7   blood_glucose_level  100000 non-null   int64  
 8   diabetes         100000 non-null   int64  
dtypes: float64(3), int64(4), object(2)
memory usage: 6.9+ MB
```

```
[63]: df.describe()
```

```
[63]:          age  hypertension  heart_disease      bmi \
count  100000.000000  100000.000000  100000.000000  100000.000000
mean    41.885856     0.07485     0.039420    27.320767
std     22.516840     0.26315     0.194593    6.636783
min     0.080000     0.00000     0.000000   10.010000
25%    24.000000     0.00000     0.000000   23.630000
50%    43.000000     0.00000     0.000000   27.320000
75%    60.000000     0.00000     0.000000   29.580000
max    80.000000     1.00000     1.000000   95.690000

          HbA1c_level  blood_glucose_level      diabetes
count  100000.000000           100000.000000  100000.000000
mean     5.527507            138.058060    0.085000
std      1.070672            40.708136    0.278883
min     3.500000            80.000000    0.000000
25%    4.800000            100.000000   0.000000
50%    5.800000            140.000000   0.000000
75%    6.200000            159.000000   0.000000
max    9.000000            300.000000   1.000000
```

```
[64]: df.columns
```

```
[64]: Index(['gender', 'age', 'hypertension', 'heart_disease', 'smoking_history',
       'bmi', 'HbA1c_level', 'blood_glucose_level', 'diabetes'],
       dtype='object')
```

```
[65]: df.shape
```

```
[65]: (100000, 9)
```

```
[66]: df.isnull().sum()
```

```
[66]: gender          0
age             0
hypertension     0
heart_disease    0
smoking_history  0
bmi             0
HbA1c_level      0
blood_glucose_level  0
diabetes         0
dtype: int64
```

```
[67]: X=df.drop(columns=['diabetes'])
y=df['diabetes']

[68]: nums_cols=X.select_dtypes(include=['int64','float64']).columns.tolist()
print("The number columns are: ",nums_cols)
binary_cols=[col for col in X.columns if X[col].nunique()==2]
print("The binary columns are: ",binary_cols)
cat_cols=X.select_dtypes(include='object').columns.tolist()
cat_cols=[col for col in cat_cols if col not in binary_cols]
print("The categorical columns are: ",cat_cols)
```

The number columns are: ['age', 'hypertension', 'heart_disease', 'bmi', 'HbA1c_level', 'blood_glucose_level']
The binary columns are: ['hypertension', 'heart_disease']
The categorical columns are: ['gender', 'smoking_history']

```
[69]: df[nums_cols].skew()
```

```
[69]: age           -0.051979
hypertension      3.231296
heart_disease    4.733872
bmi              1.043836
HbA1c_level      -0.066854
blood_glucose_level 0.821655
dtype: float64
```

```
[70]: df['bmi'] = np.log1p(df['bmi'])
```

```
[71]: for col in nums_cols:
    mean = df[col].mean()
    median = df[col].median()
    mode = df[col].mode()
    std = df[col].std()
    qk = df[col].quantile(0.75)
    print(col,mean,median,mode,std,qk)
```

```
age 41.885856 43.0 0     80.0
Name: age, dtype: float64 22.51683987161513 60.0
hypertension 0.07485 0.0 0     0
Name: hypertension, dtype: int64 0.2631504702291422 0.0
heart_disease 0.03942 0.0 0     0
Name: heart_disease, dtype: int64 0.19459301699790674 0.0
bmi 3.317219955426433 3.343568268825519 0     3.343568
Name: bmi, dtype: float64 0.2300400805602167 3.420346200500916
HbA1c_level 5.527507 5.8 0     6.6
Name: HbA1c_level, dtype: float64 1.0706720918832282 6.2
```

```
blood_glucose_level 138.05806 140.0 0      130  
Name: blood_glucose_level, dtype: int64 40.70813604870113 159.0
```

```
[72]: scaler = StandardScaler()  
X[nums_cols] = scaler.fit_transform(X[nums_cols])
```

```
[73]: X = pd.get_dummies(X, columns=cat_cols, drop_first=True)
```

```
[74]: print(X)
```

	age	hypertension	heart_disease	bmi	HbA1c_level	\
0	1.692704	-0.284439	4.936379	-0.321056	1.001706	
1	0.538006	-0.284439	-0.202578	-0.000116	1.001706	
2	-0.616691	-0.284439	-0.202578	-0.000116	0.161108	
3	-0.261399	-0.284439	-0.202578	-0.583232	-0.492690	
4	1.515058	3.515687	4.936379	-1.081970	-0.679490	
...
99995	1.692704	-0.284439	-0.202578	-0.000116	0.628107	
99996	-1.771388	-0.284439	-0.202578	-1.499343	0.908306	
99997	1.070944	-0.284439	-0.202578	0.076729	0.161108	
99998	-0.794336	-0.284439	-0.202578	1.220361	-1.426688	
99999	0.671241	-0.284439	-0.202578	-0.736922	1.001706	
	blood_glucose_level	gender_Male	gender_Other	\		
0	0.047704	False	False			
1	-1.426210	False	False			
2	0.489878	True	False			
3	0.416183	False	False			
4	0.416183	True	False			
...			
99995	-1.180558	False	False			
99996	-0.934905	False	False			
99997	0.416183	True	False			
99998	-0.934905	False	False			
99999	-1.180558	False	False			
	smoking_history_current	smoking_history_ever	smoking_history_former	\		
0	False	False	False			
1	False	False	False			
2	False	False	False			
3	True	False	False			
4	True	False	False			
...			
99995	False	False	False			

```

99996          False          False          False
99997          False          False          True
99998          False          False          False
99999          True           False          False

smoking_history_never  smoking_history_not current
0                  True           False
1                  False          False
2                  True           False
3                  False          False
4                  False          False
...
99995          False          False
99996          False          False
99997          False          False
99998          True           False
99999          False          False

```

[100000 rows x 13 columns]

[75]: X = X.astype(int)

```

[76]: # Set figure size and layout (2 rows, 3 columns)
fig, axes = plt.subplots(2, 4, figsize=(18, 12)) # Adjust rows/cols as needed
fig.suptitle("Exploratory Data Analysis", fontsize=20)

# Flatten axes array for easy indexing
axes = axes.flatten()

# Target variable distribution
sns.countplot(x='diabetes', data=df, ax=axes[0])
axes[0].set_title("Target Variable Distribution")

# Age distribution (histogram + KDE)
sns.histplot(df['age'], bins=30, kde=True, ax=axes[1])
axes[1].set_title("Age Distribution")

# BMI vs Diabetes (boxplot)
sns.boxplot(x='diabetes', y='bmi', data=df, ax=axes[2])
axes[2].set_title("BMI vs Diabetes")

# Average BMI by Gender (barplot)
sns.barplot(x='gender', y='bmi', data=df, ax=axes[3])

```

```

axes[3].set_title("Average BMI by Gender")

# BMI vs Blood Glucose (scatter)
sns.scatterplot(x='bmi', y='blood_glucose_level', hue='diabetes', data=df, ax=axes[4])
axes[4].set_title("BMI vs Blood Glucose")

# HbA1c Trend by Age (lineplot)
sns.lineplot(x='age', y='HbA1c_level', data=df, ax=axes[5])
axes[5].set_title("HbA1c Trend by Age")

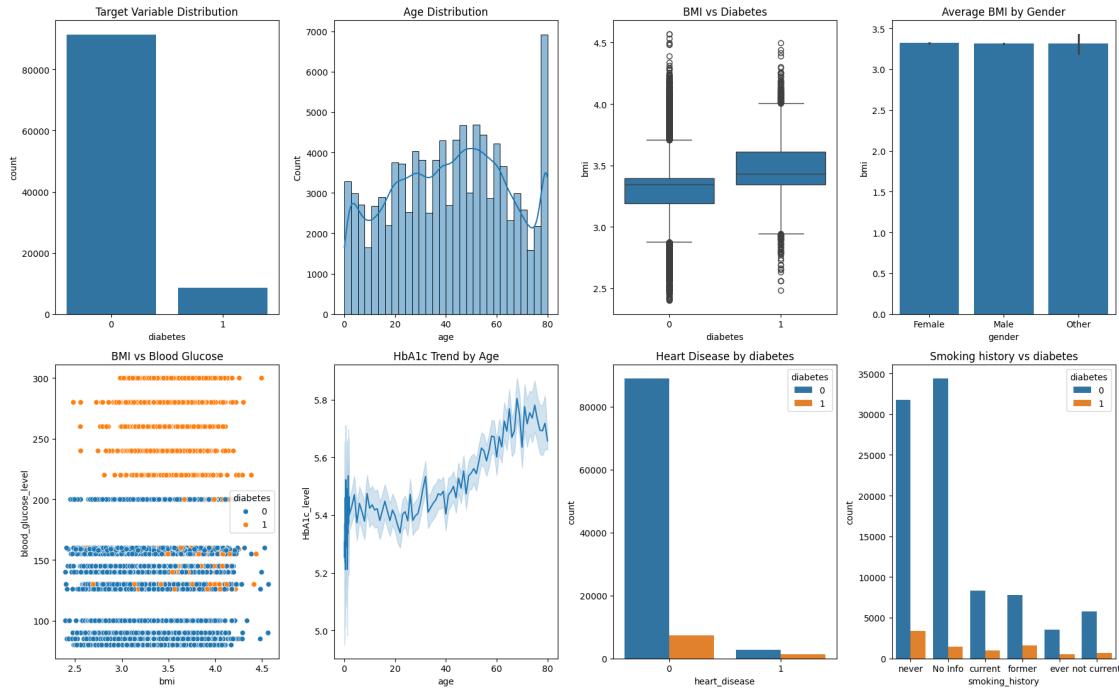
sns.countplot(x='heart_disease', hue='diabetes', data=df, ax=axes[6])
axes[6].set_title("Heart Disease by diabetes")

sns.countplot(x='smoking_history', hue='diabetes', data=df, ax=axes[7])
axes[7].set_title("Smoking history vs diabetes")

# Adjust layout so titles don't overlap
plt.tight_layout(rect=[0, 0, 1, 0.96]) # leave space for suptitle
plt.show()

```

Exploratory Data Analysis



```
[77]: from sklearn.feature_selection import SelectKBest, f_classif

X_new = SelectKBest(score_func=f_classif, k=8)
X_selected = X_new.fit_transform(X, y)

selected_features = X.columns[X_new.get_support()]
print("Selected Features:", selected_features)
```

Selected Features: Index(['age', 'hypertension', 'heart_disease', 'bmi', 'HbA1c_level',
'blood_glucose_level', 'gender_Male', 'smoking_history_former'],
dtype='object')

```
[78]: from sklearn.model_selection import train_test_split

# Train + Test
X_train, X_test, y_train, y_test = train_test_split(
    X, y, test_size=0.2, random_state=42, stratify=y
)

# Train + Validation
X_train, X_val, y_train, y_val = train_test_split(
    X_train, y_train, test_size=0.2, random_state=42, stratify=y_train
)

print("Training set:", X_train.shape)
print("Validation set:", X_val.shape)
print("Testing set:", X_test.shape)
```

Training set: (64000, 13)
Validation set: (16000, 13)
Testing set: (20000, 13)

0.5 Iris

```
[79]: import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
import seaborn as sns
from sklearn.preprocessing import StandardScaler, MinMaxScaler, RobustScaler, LabelBinarizer
```

```
[80]: df = pd.read_csv("Iris.csv")
df.head()
```

```
[80]:    Id SepalLengthCm SepalWidthCm PetalLengthCm PetalWidthCm
      ↪Species
0   1           5.1          3.5         1.4         0.2
  ↪Iris-setosa
1   2           4.9          3.0         1.4         0.2
  ↪Iris-setosa
2   3           4.7          3.2         1.3         0.2
  ↪Iris-setosa
3   4           4.6          3.1         1.5         0.2
  ↪Iris-setosa
4   5           5.0          3.6         1.4         0.2
  ↪Iris-setosa
```

```
[81]: df.shape
```

```
[81]: (150, 6)
```

```
[82]: df.columns
```

```
[82]: Index(['Id', 'SepalLengthCm', 'SepalWidthCm', 'PetalLengthCm', ↪
      ↪'PetalWidthCm',
      ↪'Species'],
      dtype='object')
```

```
[83]: df.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 150 entries, 0 to 149
Data columns (total 6 columns):
 #   Column            Non-Null Count  Dtype  
--- 
 0   Id                150 non-null    int64  
 1   SepalLengthCm     150 non-null    float64 
 2   SepalWidthCm      150 non-null    float64 
 3   PetalLengthCm     150 non-null    float64 
 4   PetalWidthCm      150 non-null    float64 
 5   Species           150 non-null    object  
dtypes: float64(4), int64(1), object(1)
memory usage: 7.2+ KB
```

```
[84]: df.describe()
```

```
[84]:
```

	Id	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm
count	150.000000	150.000000	150.000000	150.000000	150.000000
mean	75.500000	5.843333	3.054000	3.758667	1.198667
std	43.445368	0.828066	0.433594	1.764420	0.763161
min	1.000000	4.300000	2.000000	1.000000	0.100000
25%	38.250000	5.100000	2.800000	1.600000	0.300000
50%	75.500000	5.800000	3.000000	4.350000	1.300000
75%	112.750000	6.400000	3.300000	5.100000	1.800000
max	150.000000	7.900000	4.400000	6.900000	2.500000

[85]: df.isnull().sum()

[85]:

Id	0
SepalLengthCm	0
SepalWidthCm	0
PetalLengthCm	0
PetalWidthCm	0
Species	0
dtype: int64	

[86]: df.duplicated().sum()

[86]: np.int64(0)

[87]: df['Species'].value_counts()

[87]:

Species	
Iris-setosa	50
Iris-versicolor	50
Iris-virginica	50
Name: count, dtype: int64	

[88]: X=df.drop(columns=['Species'])
y=df['Species']

```
[89]: nums_cols=X.select_dtypes(include=['int64','float64']).columns.tolist()
print("The number columns are: ",nums_cols)
binary_cols=[col for col in X.columns if X[col].nunique()==2]
print("The binary columns are: ",binary_cols)
cat_cols=X.select_dtypes(include='object').columns.tolist()
cat_cols=[col for col in cat_cols if col not in binary_cols]
print("The categorical columns are: ",cat_cols)
```

The number columns are: ['Id', 'SepalLengthCm', 'SepalWidthCm',
'PetalLengthCm', 'PetalWidthCm']
The binary columns are: []
The categorical columns are: []

```
[90]: scaler = StandardScaler()
X[nums_cols] = scaler.fit_transform(X[nums_cols])
```

```
[91]: print(X)
```

	Id	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm
0	-1.720542	-0.900681	1.032057	-1.341272	-1.312977
1	-1.697448	-1.143017	-0.124958	-1.341272	-1.312977
2	-1.674353	-1.385353	0.337848	-1.398138	-1.312977
3	-1.651258	-1.506521	0.106445	-1.284407	-1.312977
4	-1.628164	-1.021849	1.263460	-1.341272	-1.312977
..
145	1.628164	1.038005	-0.124958	0.819624	1.447956
146	1.651258	0.553333	-1.281972	0.705893	0.922064
147	1.674353	0.795669	-0.124958	0.819624	1.053537
148	1.697448	0.432165	0.800654	0.933356	1.447956
149	1.720542	0.068662	-0.124958	0.762759	0.790591

[150 rows x 5 columns]

```
[92]: plt.figure(figsize=(12, 8))

# Sepal Length
plt.subplot(2, 3, 1)
plt.hist(df['SepalLengthCm'], bins=20)
plt.title("Sepal Length")
plt.xlabel("cm")
plt.ylabel("Frequency")

# Sepal Width
plt.subplot(2, 3, 2)
plt.hist(df['SepalWidthCm'], bins=20)
```

```

plt.title("Sepal Width")
plt.xlabel("cm")

# Petal Length
plt.subplot(2, 3, 3)
plt.hist(df['PetalLengthCm'], bins=20)
plt.title("Petal Length")
plt.xlabel("cm")

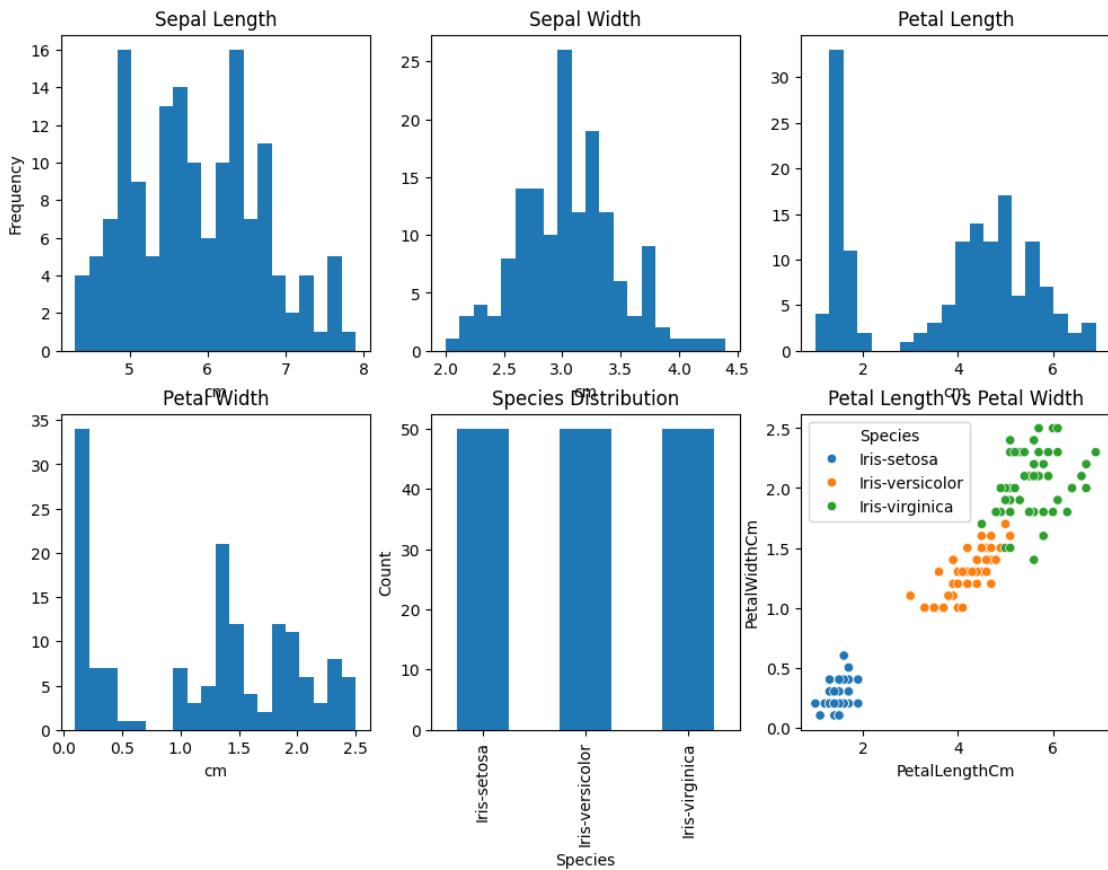
# Petal Width
plt.subplot(2, 3, 4)
plt.hist(df['PetalWidthCm'], bins=20)
plt.title("Petal Width")
plt.xlabel("cm")

# Species Count
plt.subplot(2, 3, 5)
df['Species'].value_counts().plot(kind='bar')
plt.title("Species Distribution")
plt.xlabel("Species")
plt.ylabel("Count")

plt.subplot(2,3,6)
sns.scatterplot(x='PetalLengthCm',
                 y='PetalWidthCm',
                 hue='Species',
                 data=df)
plt.title("Petal Length vs Petal Width")
plt.show()

plt.tight_layout()
plt.show()

```



<Figure size 640x480 with 0 Axes>

```
[93]: from sklearn.feature_selection import SelectKBest, f_classif

selector = SelectKBest(score_func=f_classif, k=3)
X_selected = selector.fit_transform(X, y)

selected_features = X.columns[selector.get_support()]
print("Selected Features:", selected_features)
```

Selected Features: Index(['Id', 'PetalLengthCm', 'PetalWidthCm'],
dtype='object')

```
[94]: from sklearn.model_selection import train_test_split

X_train, X_test, y_train, y_test = train_test_split(
    X_selected, y, test_size=0.2, random_state=42, stratify=y
)
```

```
print(X_train.shape, X_test.shape)
```

```
(120, 3) (30, 3)
```

Inference Table

Dataset	Type of ML Task	Feature Selection Technique	Suitable ML Algorithm
Iris Dataset	Multi-class Classification	ANOVA, SelectKBest	K-Nearest Neighbour
Loan Amount Prediction	Regression	ANOVA, SelectKBest	Linear Regression
Predicting Diabetes	Classification	ANOVA, SelectKBest	Logistic Regression
Classification of Email Spam	Binary Classification	ANOVA, SelectKBest	Naive Bayes
Handwritten Character Recognition / MNIST	Multi-class Classification	ANOVA, SelectKBest	SVM

Learning Outcomes

Through this experiment, the following learning outcomes were achieved:

- Gained a clear understanding of different types of machine learning tasks such as classification and regression.
- Learned how to identify suitable machine learning algorithms based on dataset characteristics.
- Understood the importance of feature selection techniques like ANOVA, Chi-Square test, and PCA.
- Acquired practical experience in working with multiple real-world datasets.
- Improved knowledge of the complete machine learning workflow including data loading, preprocessing, visualization, and evaluation.