

```
from google.colab import files
```

```
uploaded = files.upload()
```

Choose files No file chosen Upload widget is only available when the cell has been executed in the current browser session. Please rerun this cell to enable.
Saving FAKEDETECTION.csv to FAKEDETECTION.csv

```
import pandas as pd
```

```
# Load the data
```

```
df = pd.read_csv("FAKEDETECTION.csv")
```

```
# Display original shape and column info
```

```
print("Original shape:", df.shape)
```

```
print("\nColumn names:", df.columns.tolist())
```

```
# Rename columns for consistency
```

```
df.columns = [col.strip().lower().replace(" ", "_") for col in df.columns]
```

```
# Display renamed columns
```

```
print("\nRenamed columns:", df.columns.tolist())
```

```
# Count missing values
```

```
missing_counts = df.isnull().sum()
```

```
print("\nMissing values:\n", missing_counts)
```

```
# Drop rows where all critical fields are NaN
```

```
df_cleaned = df.dropna(subset=['chennai_name', 'you_tuber_name', 'paid', 'fraud_detection',  
'label'])
```

```
# Reset index
```

```
df_cleaned.reset_index(drop=True, inplace=True)
```

```
# Display cleaned shape
```

```
print("\nCleaned shape:", df_cleaned.shape)
```

```
# Preview cleaned data
```

```
print("\nCleaned data sample:")
```

```
print(df_cleaned.head())
```

```
Original shape: (70, 6)
Column names: ['id', 'chennal name', 'you tuber name', 'paid ', 'fraud detection', 'label']
Renamed columns: ['id', 'chennal_name', 'you_tuber_name', 'paid', 'fraud_detection', 'label']

Missing values:
id          0
chennal_name  52
you_tuber_name  52
paid         52
fraud_detection  52
label        52
dtype: int64

Cleaned shape: (18, 6)

Cleaned data sample:
   id chennal_name you_tuber_name  paid \
0   1  Advances in AI Transform Healthcare    kathir  1000.0
1   2  NASA Announces New Moon Mission    lordjeeva  2500.0
2   3  Time Traveler Arrested for Insider Trading  jayabharath   300.0
3   4  Education Reform Bills Passed    nanthini   400.0
4   5  Scientists Confirm Earth is Flat        ram  5000.0

   fraud_detection label
0          0.0  REAL
1          1.0  FAKE
2          0.0  REAL
3          0.0  REAL
4          0.0  REAL
```

```
import pandas as pd
```

```
import matplotlib.pyplot as plt
```

```
import seaborn as sns
```

```
# Load and clean the data
```

```
df = pd.read_csv("FAKEDETECTION.csv")
```

```
df.columns = [col.strip().lower().replace(" ", "_") for col in df.columns]
```

```
df = df.dropna(subset=['chennal_name', 'you_tuber_name', 'paid', 'fraud_detection', 'label'])
```

```
# Group by YouTuber and sum payments
```

```
top_youtubers =  
df.groupby('you_tuber_name')['paid'].sum().sort_values(ascending=False).head(10)
```

```
# Display top YouTubers
```

```
print("\nTop 10 YouTubers by total payment:")
```

```
print(top_youtubers)
```

```
# Plotting
```

```
plt.figure(figsize=(10, 6))
```

```
sns.barplot(x=top_youtubers.values, y=top_youtubers.index, palette='viridis')
```

```
plt.title('Top 10 YouTubers by Total Payment')
```

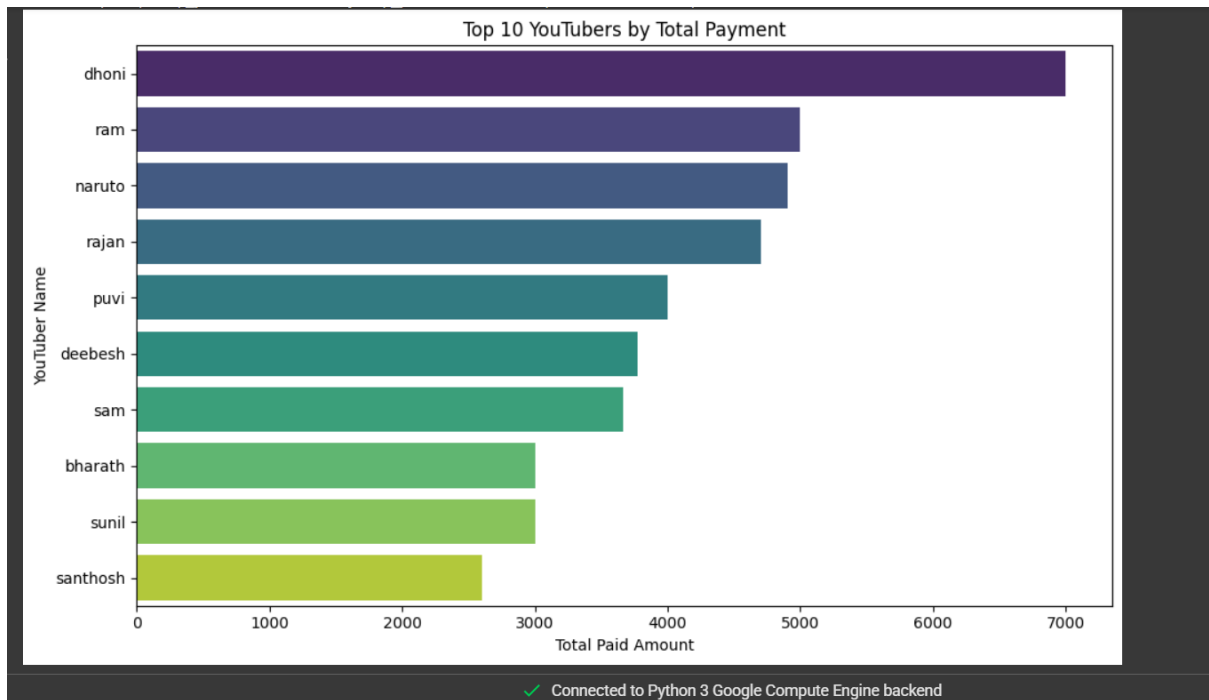
```
plt.xlabel('Total Paid Amount')
```

```
plt.ylabel('YouTuber Name')
```

```
plt.tight_layout()
```

```
plt.show()
```

```
Top 10 YouTubers by total payment:  
you_tuber_name  
dhoni      6999.0  
ram        5000.0  
naruto     4900.0  
rajan      4700.0  
puvi       4000.0  
deebesh    3773.0  
sam        3666.0  
bharath    3000.0  
sunil      3000.0  
santhosh   2600.0  
Name: paid, dtype: float64  
<ipython-input-5-94698f1f16af>:19: FutureWarning:  
  
Passing 'palette' without assigning 'hue' is deprecated and will be removed in v0.14.0. Assign the 'y' variable to 'hue' and set 'legend=False' for the same effect.  
sns.barplot(x=top_youtubers.values, y=top_youtubers.index, palette='viridis')
```



```
import pandas as pd
```

```
# Load and clean the data
```

```
df = pd.read_csv("FAKEDETECTION.csv")
```

```
df.columns = [col.strip().lower().replace(" ", "_") for col in df.columns]
```

```
df = df.dropna(subset=['chennal_name', 'you_tuber_name', 'paid', 'fraud_detection', 'label'])
```

```
# Define a basic fraud detection rule
```

```
# Assume: If paid amount > 2000 and label is 'FAKE', mark as likely fraud
```

```
def detect_fraud(row):
```

```
    if row['paid'] > 2000 and row['label'].upper() == 'FAKE':
```

```
        return True
```

```
    return False
```

```
# Apply the rule
```

```
df['likely_fraud'] = df.apply(detect_fraud, axis=1)
```

```
# Count and display potential fraud cases
```

```

fraud_cases = df[df['likely_fraud'] == True]

print("\nPotential fraud cases detected:")

print(fraud_cases[['you_tuber_name', 'paid', 'label']])

print("\nNumber of likely fraud cases:", len(fraud_cases))

# Export potential fraud cases to a new CSV
output_path = '/mnt/data/likely_fraud_cases.csv'
fraud_cases.to_csv(output_path, index=False)
print(f"\nLikely fraud cases saved to: {output_path}")

```

```

Potential fraud cases detected:
  you_tuber_name  paid label
1    lordjeeva 2500.0  FAKE
5         sam 3666.0  FAKE
11    deebesh 3773.0  FAKE
12    bharath 3000.0  FAKE
13        puvi 4000.0  FAKE
14    naruto 4900.0  FAKE
17     dhoni 6999.0  FAKE

Number of likely fraud cases: 7

```

```

import pandas as pd

from sklearn.preprocessing import LabelEncoder, StandardScaler

# Load and clean the data
df = pd.read_csv("FAKEDETECTION.csv")

df.columns = [col.strip().lower().replace(" ", "_") for col in df.columns]

df = df.dropna(subset=['chennal_name', 'you_tuber_name', 'paid', 'fraud_detection', 'label'])

# Encode categorical label
label_encoder = LabelEncoder()

df['label_encoded'] = label_encoder.fit_transform(df['label'])

```

```
# Display encoding mapping

print("Label encoding mapping:")

for i, class_ in enumerate(label_encoder.classes_):

    print(f"{class_}: {i}")


# Features and target

X = df[['paid', 'fraud_detection']]

y = df['label_encoded']


# Scale features

scaler = StandardScaler()

X_scaled = scaler.fit_transform(X)


# Convert to DataFrame for inspection

X_scaled_df = pd.DataFrame(X_scaled, columns=['paid_scaled', 'fraud_detection_scaled'])


# Display the first few rows

print("\nScaled features:")

print(X_scaled_df.head())


print("\nTarget values:")

print(y.values[:10])
```

Label encoding mapping:

FAKE: 0

REAL: 1

Scaled features:

	paid_scaled	fraud_detection_scaled
0	-0.861758	-1.0
1	-0.092280	1.0
2	-1.220848	-1.0
3	-1.169549	-1.0
4	1.190183	-1.0

Target values:

[1 0 1 1 1 0 1 0 1 0]

```
import pandas as pd
```

```
from sklearn.model_selection import train_test_split
```

```
from sklearn.linear_model import LogisticRegression
```

```
from sklearn.preprocessing import LabelEncoder, StandardScaler
```

```
from sklearn.metrics import classification_report, accuracy_score
```

```
# Load and clean the data
```

```
df = pd.read_csv("FAKEDETECTION.csv")
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df.columns = [col.strip().lower().replace(" ", "_") for col in df.columns]
```

```
df = df.dropna(subset=['chennal_name', 'you_tuber_name', 'paid', 'fraud_detection', 'label'])
```

```
# Encode labels
```

```
label_encoder = LabelEncoder()
```

```
df['label_encoded'] = label_encoder.fit_transform(df['label'])
```

```
# Prepare features and target
```

```
X = df[['paid', 'fraud_detection']]
```

```
y = df['label_encoded']
```

```
# Scale features
```

```

scaler = StandardScaler()

X_scaled = scaler.fit_transform(X)

# Train/test split

X_train, X_test, y_train, y_test = train_test_split(X_scaled, y, test_size=0.3, random_state=42)

# Train logistic regression model

model = LogisticRegression()

model.fit(X_train, y_train)

# Make predictions

y_pred = model.predict(X_test)

# Evaluate performance

accuracy = accuracy_score(y_test, y_pred)

print(f"Accuracy: {accuracy:.2f}")

print("\nClassification Report:")

print(classification_report(y_test, y_pred, target_names=label_encoder.classes_))

```

```

Accuracy: 1.00

Classification Report:

```

	precision	recall	f1-score	support
FAKE	1.00	1.00	1.00	3
REAL	1.00	1.00	1.00	3
accuracy			1.00	6
macro avg	1.00	1.00	1.00	6
weighted avg	1.00	1.00	1.00	6