import pandas as pd

fromtextblobimportTextBlob

importmatplotlib.pyplotas pl

col\_names=['ID','Entity','Sentiments','Contest']

df=pd.read\_csv('twitter\_training.csv', names=col\_names)

1----------------------------

data= pd.read\_csv('/content/twitter\_training.csv')

2------------------------------

data.head()

3------------------------------------

col\_names=['ID','Entity','Sentiments','Contest']

df=pd.read\_csv('twitter\_training.csv', names=col\_names)

4------------------

df.head()

5------------------------

df.describe

6----------------------

df.isnull().sum()

7---------------------

df.dropna(axis=0,inplace=True)

8----------------------------

df.isnull().sum()

9----------------------

df.duplicated().sum()

10----

df.drop\_duplicates(inplace=True)

df.duplicated().sum()

11-------------------------

df.shape

12------------------------------

sentiment\_counts=df['Sentiments'].value\_counts()

sentiment\_counts

13-----------------------

importmatplotlib.pyplotasplt

plt.figure(figsize=(6,3))

sentiment\_counts.plot(kind='bar', color=['red','green','blue','yellow'])

plt.title('Sentiment Distribution')

plt.xlabel('Number of Tweets')

plt.xticks(rotation=0)

plt.show()

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brand\_data=df[df['Entity'].str.contains('Microsoft',case=False)]

brand\_sentiment\_counts=brand\_data['Sentiments'].value\_counts()

brand\_sentiment\_counts

15------------------------

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

plt.pie(brand\_sentiment\_counts,labels=brand\_sentiment\_counts.index,autopct='%1.11f%%',startangle=140)

plt.show()

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