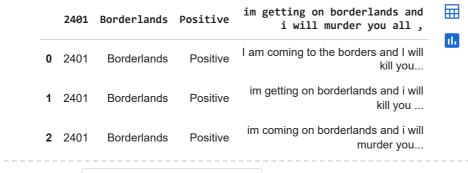
path='/content/drive/MyDrive/prodigy ds/twitter\_training.csv'
import pandas as pd
data=pd.read\_csv(path)
data.head()



Next steps: View recommended plots

from textblob import TextBlob
import matplotlib.pyplot as plt

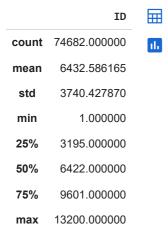
col\_names = ['ID', 'Entity', 'Sentiment', 'Content']
df = pd.read\_csv(path, names=col\_names)

## df.head()

Content	Sentiment	Entity	ID	
im getting on borderlands and i will murder yo	Positive	Borderlands	2401	0
am coming to the borders and I will kill you	Positive	Borderlands	2401	1
im getting on borderlands and i will kill you	Positive	Borderlands	2401	2
im coming on borderlands and i will	B-#1	-8	~404	

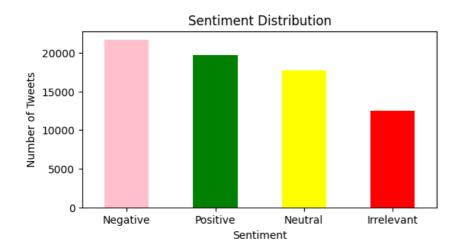
Next steps: View recommended plots

## df.describe()



		ID	Entity	Sentiment	Content
	74677	9200	Nvidia	Positive	Just realized that the Windows partition of my
	74678	9200	Nvidia	Positive	Just realized that my Mac window partition is
	74679	9200	Nvidia	Positive	Just realized the windows partition of my Mac
	74000	0000	k1 · 1·	5	Just realized between the windows
df.	shape				
	(74682,	4)			
df.	isnul	1().	sum()		
	ID Entity		0		
	Entity Sentime		0		
	Content dtype:		686		
df.	dropn	a(ax:	is=0 ,	inplace	=True)
df.	isnul	1().	sum()		
	ID Entity Sentime Content dtype:		0 0 0 0		
df.	dupli	cate	d().su	m()	
	2340				
	. –	•	icates d().su	(inplace m()	=True)
	0				
df.	shape				
	(71656,	4)			
	timen <sup>.</sup> timen	_		df['Sen	timent'].value_counts()
	Negativ Positiv Neutral Irrelev Name: S	ve L vant		pe: int64	

```
plt.figure(figsize=(6, 3))
sentiment_counts.plot(kind='bar', color=['pink', 'green', 'yellow', 'red'])
plt.title('Sentiment Distribution')
plt.xlabel('Sentiment')
plt.ylabel('Number of Tweets')
plt.xticks(rotation=0)
plt.show()
```



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

Neutral 846 Negative 774 Positive 606 Irrelevant 174

Name: Sentiment, dtype: int64

```
plt.figure(figsize=(7, 7))
plt.pie(brand_sentiment_counts, labels=brand_sentiment_counts.index, autopct='%
plt.title('Sentiment Analysis of Microsoft')
plt.show()
```

## Sentiment Analysis of Microsoft

