

```

import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
from textblob import TextBlob

# Load dataset from Google Colab
df = pd.read_csv("sentiment_data.csv")

# Function to analyze sentiment
def get_sentiment(text):
    analysis = TextBlob(text)
    if analysis.sentiment.polarity > 0:
        return "Positive"
    elif analysis.sentiment.polarity < 0:
        return "Negative"
    else:
        return "Neutral"

# Apply sentiment analysis
df["Predicted Sentiment"] = df["text"].apply(get_sentiment)

```

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# Display dataset with sentiment analysis
print(df)

```

```

↗
0          I love this product, it's amazing! Positive
1      This is the worst experience I ever had. Negative
2      The service was okay, nothing special.  Neutral
3      I am extremely happy with my purchase! Positive
4      The food was terrible, I will never go back. Negative
5      It was an average movie, not too bad.  Neutral
6      Fantastic customer service! Highly recommended. Positive
7      The place was dirty and the staff was rude. Negative
8      I'm neither happy nor sad about this.  Neutral

Predicted Sentiment
0      Positive
1      Negative
2      Positive
3      Positive
4      Negative
5      Negative
6      Positive
7      Negative
8      Positive

```

```

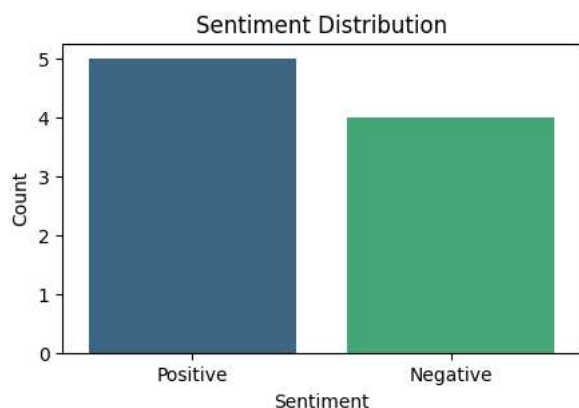
# Countplot for sentiment distribution
plt.figure(figsize=(5,3))
sns.countplot(x=df["Predicted Sentiment"], palette="viridis")
plt.title("Sentiment Distribution")
plt.xlabel("Sentiment")
plt.ylabel("Count")
plt.show()

```

 <ipython-input-15-8b667873d543>:3: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and set `legend`

```
sns.countplot(x=df["Predicted Sentiment"], palette="viridis")
```



Pie Chart for Sentiment Analysis

```
plt.figure(figsize=(5,3))
```

```
df["Predicted Sentiment"].value_counts().plot.pie(autopct="%1.1f%%", colors=["green", "red", "blue"])
```

```
plt.title("Sentiment Analysis Pie Chart")
```

```
plt.ylabel("")
```

```
plt.show()
```



Sentiment Analysis Pie Chart

