```
import pandas as pd

# Read CSV file
df = pd.read_csv('/content/College_Event_Feedback.csv')

# Display first few rows
df.head()
```

| | Student_ID | Event_Name | Rating | Feedback_Comment |
|---|---|---|---|---|
| **0** | S101 | TechFest | 5 | The event was good but could improve timing. |
| **1** | S102 | Workshop | 1 | Sound system was poor, but overall experience ... |
| **2** | S103 | Cultural Night | 4 | The event was very well organized and fun! |
| **3** | S104 | Sports Meet | 5 | Loved every bit, looking forward to next year! |
| **4** | S105 | Orientation | 1 | Excellent organization, volunteers were helpful. |

Next steps: Generate code with df | New interactive sheet

```
# Check basic info
df.info()

# Summary of numeric columns
df.describe()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 50 entries, 0 to 49
Data columns (total 4 columns):
 #   Column           Non-Null Count  Dtype 
---  ------           --------------  ----- 
 0   Student_ID       50 non-null     object
 1   Event_Name       50 non-null     object
 2   Rating           50 non-null     int64 
 3   Feedback_Comment  50 non-null     object
dtypes: int64(1), object(3)
memory usage: 1.7+ KB
```

**Rating**

```
# Remove any blank spaces and missing values
df['Feedback_Comment'] = df['Feedback_Comment'].astype(str).str.strip()
df.dropna(inplace=True)
```

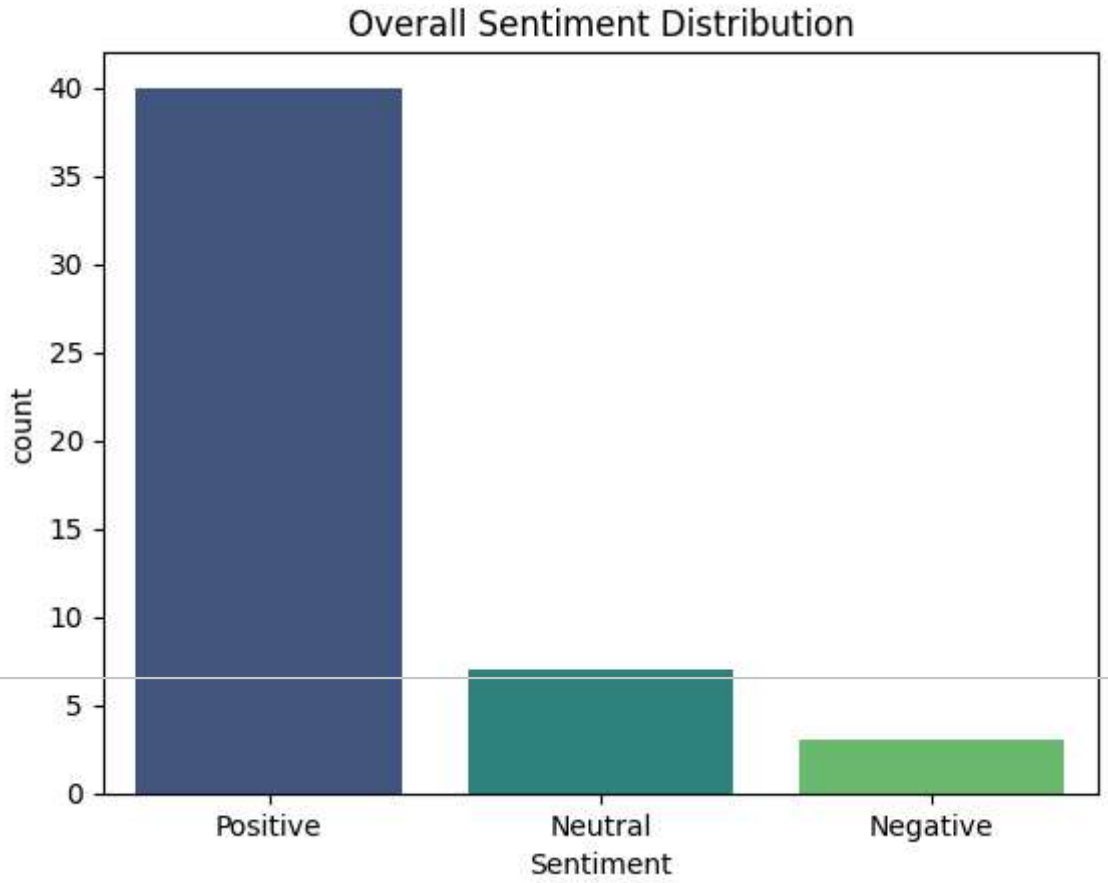
```
!pip install textblob
from textblob import TextBlob

# Get polarity (sentiment score)
df['Polarity'] = df['Feedback_Comment'].apply(lambda x: TextBlob(x).sentiment.p

# Classify sentiment
def get_sentiment(score):
    if score > 0.1:
        return 'Positive'
    elif score < -0.1:
        return 'Negative'
    else:
        return 'Neutral'

df['Sentiment'] = df['Polarity'].apply(get_sentiment)

# Preview
df[['Event_Name', 'Rating', 'Feedback_Comment', 'Sentiment']].head()
```

```
Requirement already satisfied: textblob in /usr/local/lib/python3.12/dist-packag
Requirement already satisfied: nltk>=3.9 in /usr/local/lib/python3.12/dist-packa
Requirement already satisfied: click in /usr/local/lib/python3.12/dist-packages
Requirement already satisfied: joblib in /usr/local/lib/python3.12/dist-packages
Requirement already satisfied: regex>=2021.8.3 in /usr/local/lib/python3.12/dist
Requirement already satisfied: tqdm in /usr/local/lib/python3.12/dist-packages (
```

| | Event_Name | Rating | Feedback_Comment | Sentiment |
|---|---|---|---|---|
| **0** | TechFest | 5 | The event was good but could improve timing. | Positive |
| **1** | Workshop | 1 | Sound system was poor, but overall experience ... | Positive |
| **2** | Cultural Night | 4 | The event was very well organized and fun! | Positive |
| **3** | Sports Meet | 5 | Loved every bit, looking forward to next year! | Positive |
| **4** | Orientation | 1 | Excellent organization, volunteers were helpful. | Positive |

```
import matplotlib.pyplot as plt
import seaborn as sns

# Sentiment count
sns.countplot(data=df, x='Sentiment', palette='viridis')
plt.title('Overall Sentiment Distribution')
plt.show()

# Average rating by event
sns.barplot(data=df, x='Event_Name', y='Rating', palette='coolwarm')
plt.title('Average Rating by Event')
plt.xticks(rotation=30)
plt.show()

# Sentiment by Event
sentiment_event = pd.crosstab(df['Event_Name'], df['Sentiment'])
sentiment_event.plot(kind='bar', figsize=(10,5), colormap='Accent')
plt.title('Sentiment Count by Event')
plt.ylabel('Count')
plt.show()
```

```
/tmp/ipython-input-1431539444.py:5: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in

  sns.countplot(data=df, x='Sentiment', palette='viridis')
```




```
/tmp/ipython-input-1431539444.py:10: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in
```