

College_Event_Feedback_Analysis (1).ipynb - Colab

STEP 1: Install Required Libraries

```
!pip install pandas openpyxl matplotlib seaborn wordcloud
```

STEP 2: Import Libraries

```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
from wordcloud import WordCloud
from google.colab import files
```

STEP 3: Upload the Excel File

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

STEP 4: Load the Excel File

```
df = pd.read_excel("task3.xlsx") # Change filename if different
```

STEP 5: Preview Data

```
df.head()
```

Check for missing data

```
print("Missing values:\n", df.isnull().sum())
```

Summary statistics

```
df.describe()
```

```
sns.countplot(x='Overall Satisfaction (1-5)', data=df)
```

```
plt.title("Overall Satisfaction Distribution")
```

```
plt.xlabel("Satisfaction Rating")
```

```
plt.ylabel("Number of Students")
```

```
plt.show()
```

```
recommend_counts = df['Would Recommend (Yes/No)'].value_counts()
```

```
recommend_counts.plot.pie(autopct='%1.1f%%', startangle=90, colors=['lightgreen',
'salmon'])
```

```
plt.title("Would Recommend to Others")
```

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

```
plt.show()
```

```
rating_columns = ['Overall Satisfaction (1-5)', 'Organization Rating (1-5)',
                  'Content Rating (1-5)', 'Speaker/Host Rating (1-5)']
```

```
df.groupby('Event Attended')[rating_columns].mean().plot(kind='bar',
figsize=(12,6))
```

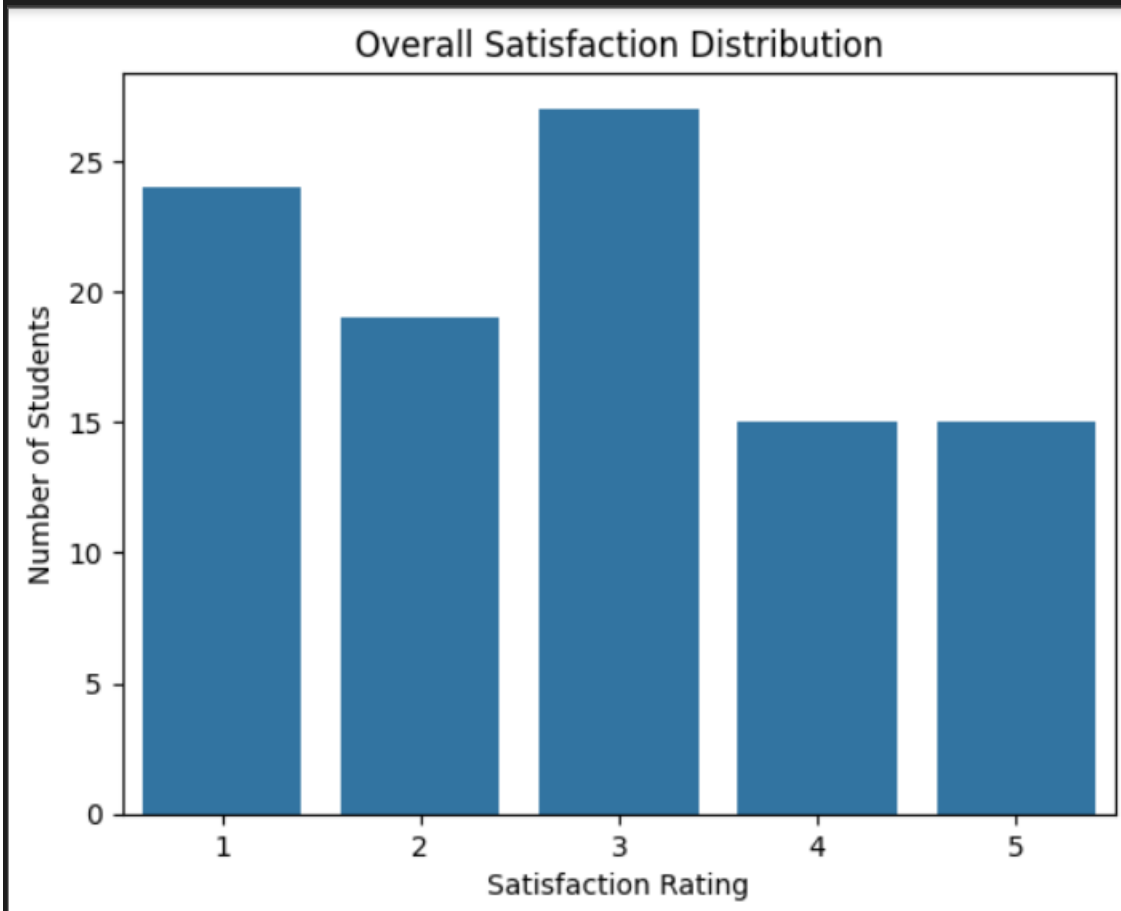
```

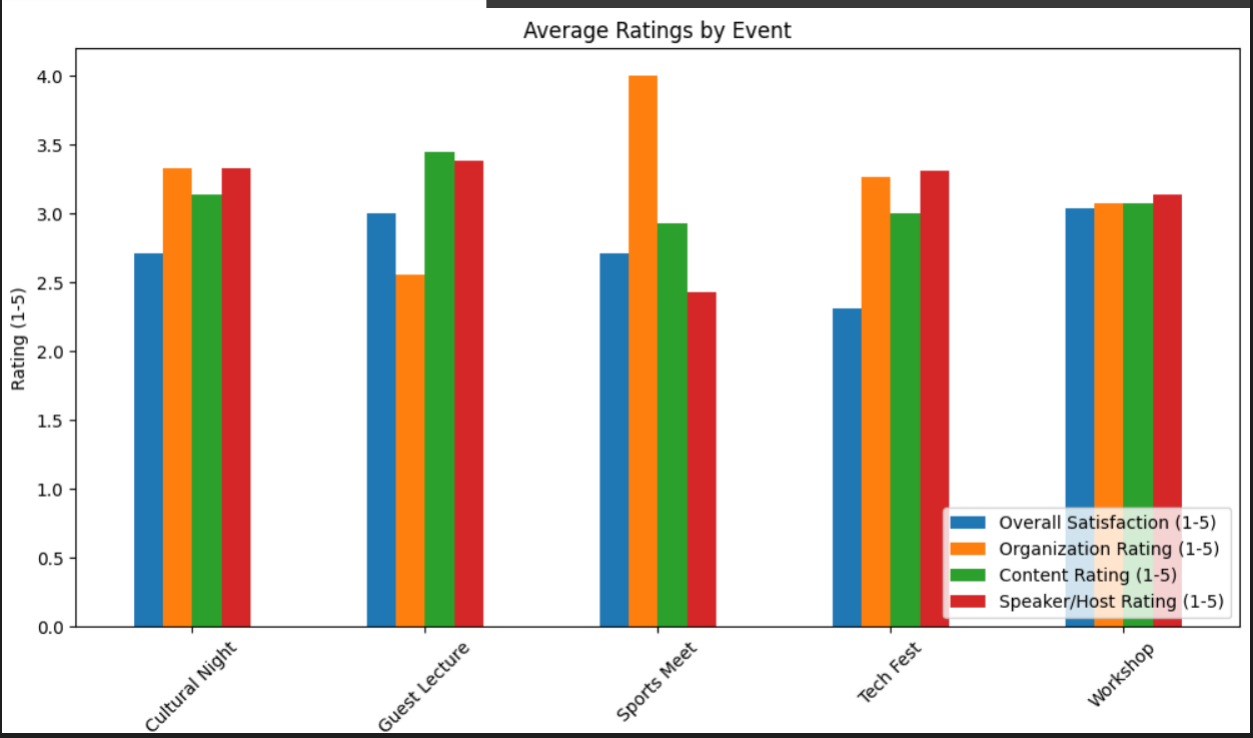
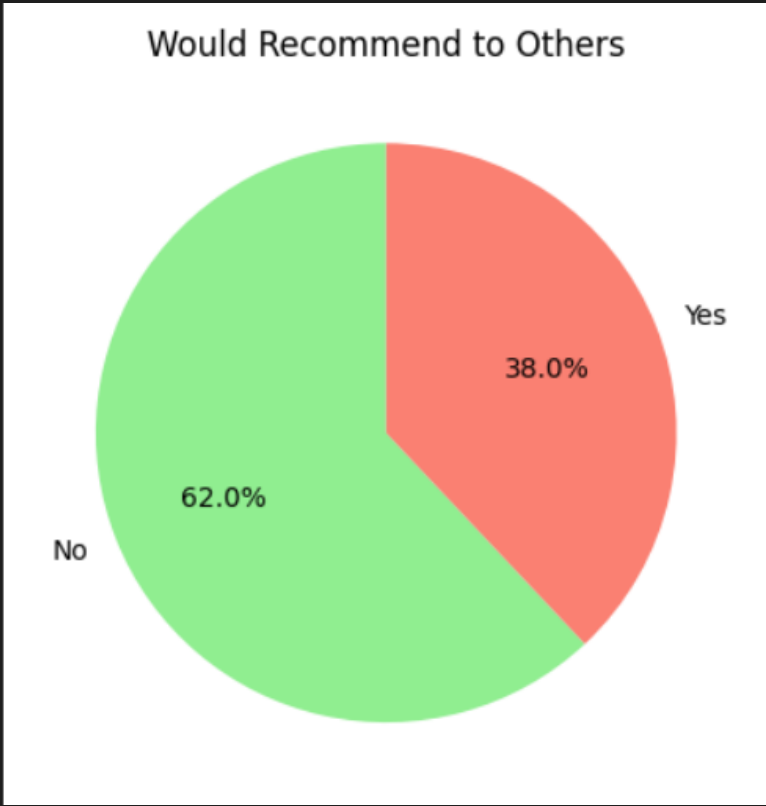
plt.title("Average Ratings by Event")
plt.ylabel("Rating (1-5)")
plt.xticks(rotation=45)
plt.legend(loc='lower right')
plt.show()
text = " ".join(comment for comment in df['Additional Comments'].astype(str))

wordcloud = WordCloud(width=800, height=400,
background_color='white').generate(text)

plt.figure(figsize=(10, 5))
plt.imshow(wordcloud, interpolation='bilinear')
plt.axis('off')
plt.title("Word Cloud of Student Comments")
Plt.show()

```





Word Cloud of Student Comments



A word cloud of student comments. The words are arranged in a roughly rectangular shape, with 'speaker' at the top, 'Great event' and 'informative' below it, 'better organized' in the middle, 'Average experience' below that, and 'crowded', 'Loved', and 'satisfied' at the bottom. The words are in various shades of green and blue.

speaker
Great event informative
better organized
Average experience
crowded Loved
satisfied