

# COLLEGE EVENT FEEDBACK ANALYSIS - PROJECT REPORT

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FUTURE\_DS\_03

SHRUTIKA PANDHARE

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# 1. Project Overview

This project analyzes student feedback from college events such as workshops, seminars, tech fests, and cultural nights. The aim is to convert raw feedback into actionable insights using Google Colab, Pandas, Matplotlib, Seaborn, and TextBlob.

## 2. Dataset Description

Source: Simulated student feedback form responses

### Columns:

- Student ID
- Event Name
- Department
- Rating (1–5 scale)
- Feedback Comment
- Date



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Saving feedback\_sheet.xlsx to feedback\_sheet (1).xlsx

	Student ID	Event Name	Department	Rating	Feedback Comment	Date
0	S001	Hackathon	Arts	4	Loved the sessions.	2025-07-15
1	S002	Tech Fest	Management	5	Very engaging and fun.	2025-06-30
2	S003	Hackathon	Science	4	Great experience!	2025-07-12
3	S004	Tech Fest	Management	5	Well organized.	2025-07-03
4	S005	Cultural Night	Commerce	4	Very engaging and fun.	2025-06-16

# 3. Data Cleaning & Preparation

- Removed duplicates and invalid ratings.

```
✓ # Remove duplicate rows if any  
df.drop_duplicates(inplace=True)
```

- Ensured ratings were between 1 and 5.

```
[ ] # Filter only valid ratings  
df = df[df["Rating"].between(1,5)]
```

- Checked for and handled missing feedback

```
[ ] df.reset_index(drop=True, inplace=True)
```

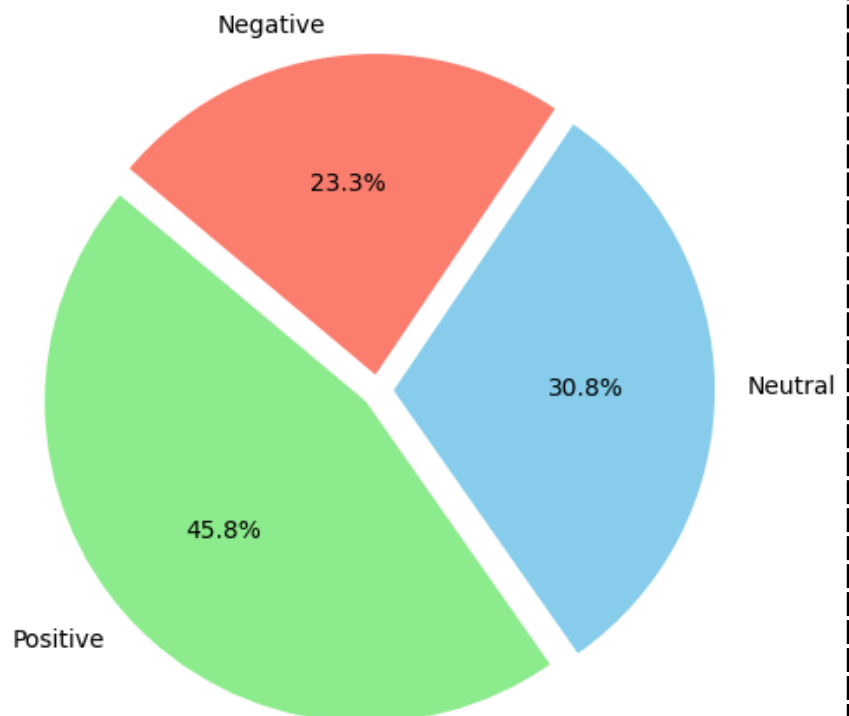
## 4. Sentiment Analysis

- Each feedback comment was analyzed using TextBlob.
- Classified as: Positive, Neutral, Negative



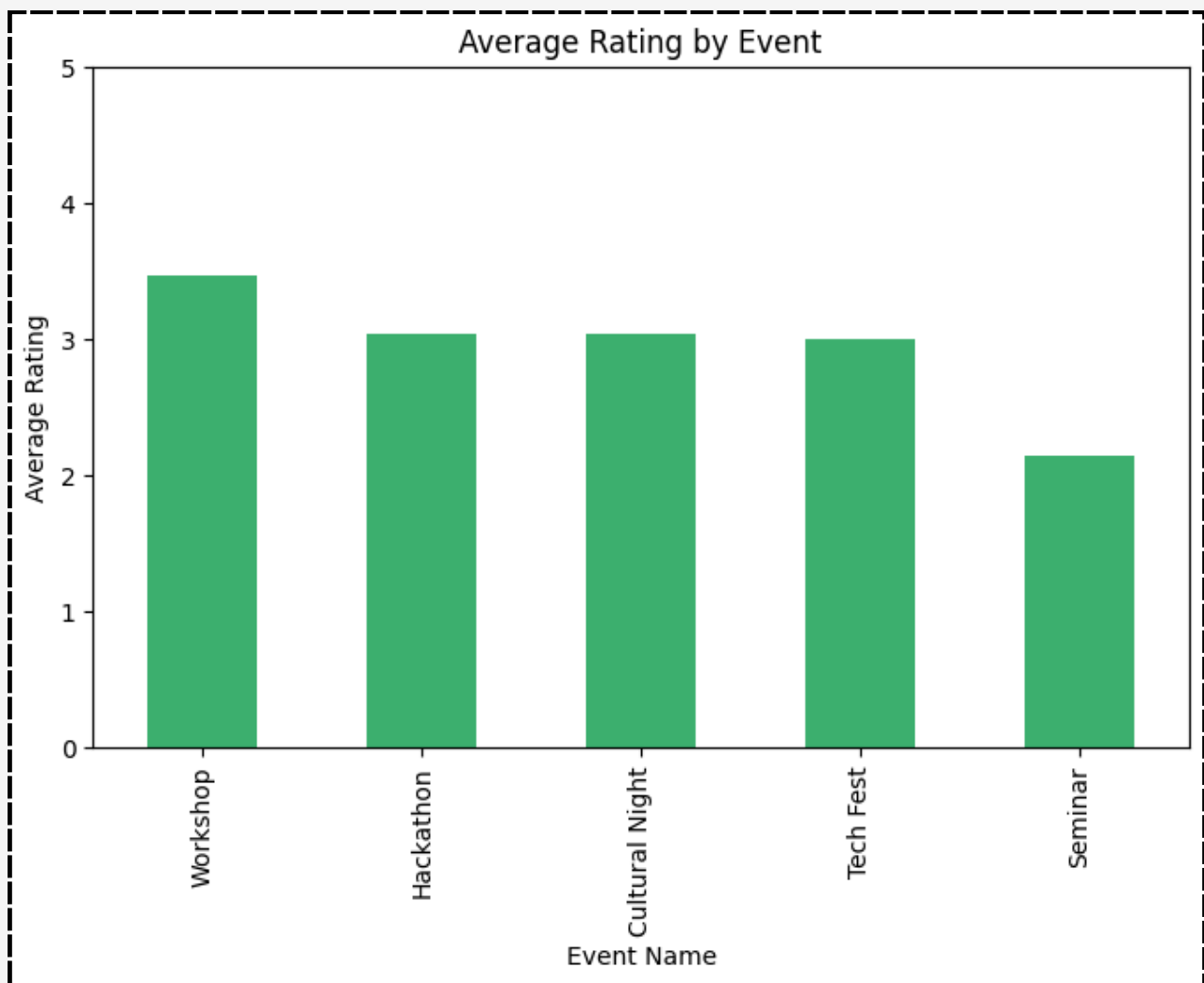
	Feedback Comment	Sentiment
0	Loved the sessions.	Positive
1	Very engaging and fun.	Positive
2	Great experience!	Positive
3	Well organized.	Neutral
4	Very engaging and fun.	Positive
5	Not engaging enough.	Neutral
6	Average experience.	Negative
7	Started late.	Negative
8	Great experience!	Positive
9	Started late.	Negative

Sentiment Distribution of Student Feedback



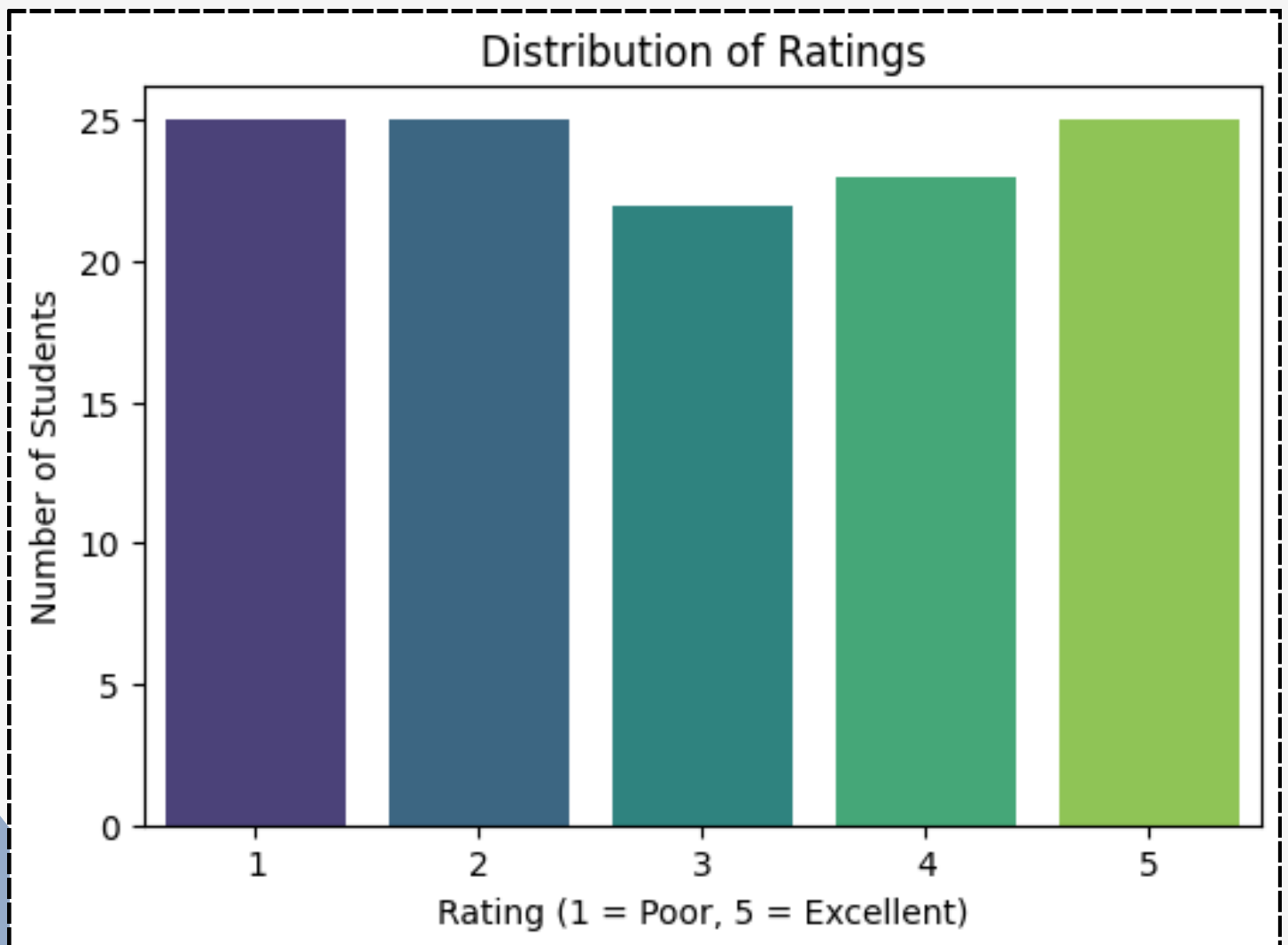
# 5. Visualizations & Results

- Ratings Distribution



# 5. Visualizations & Results

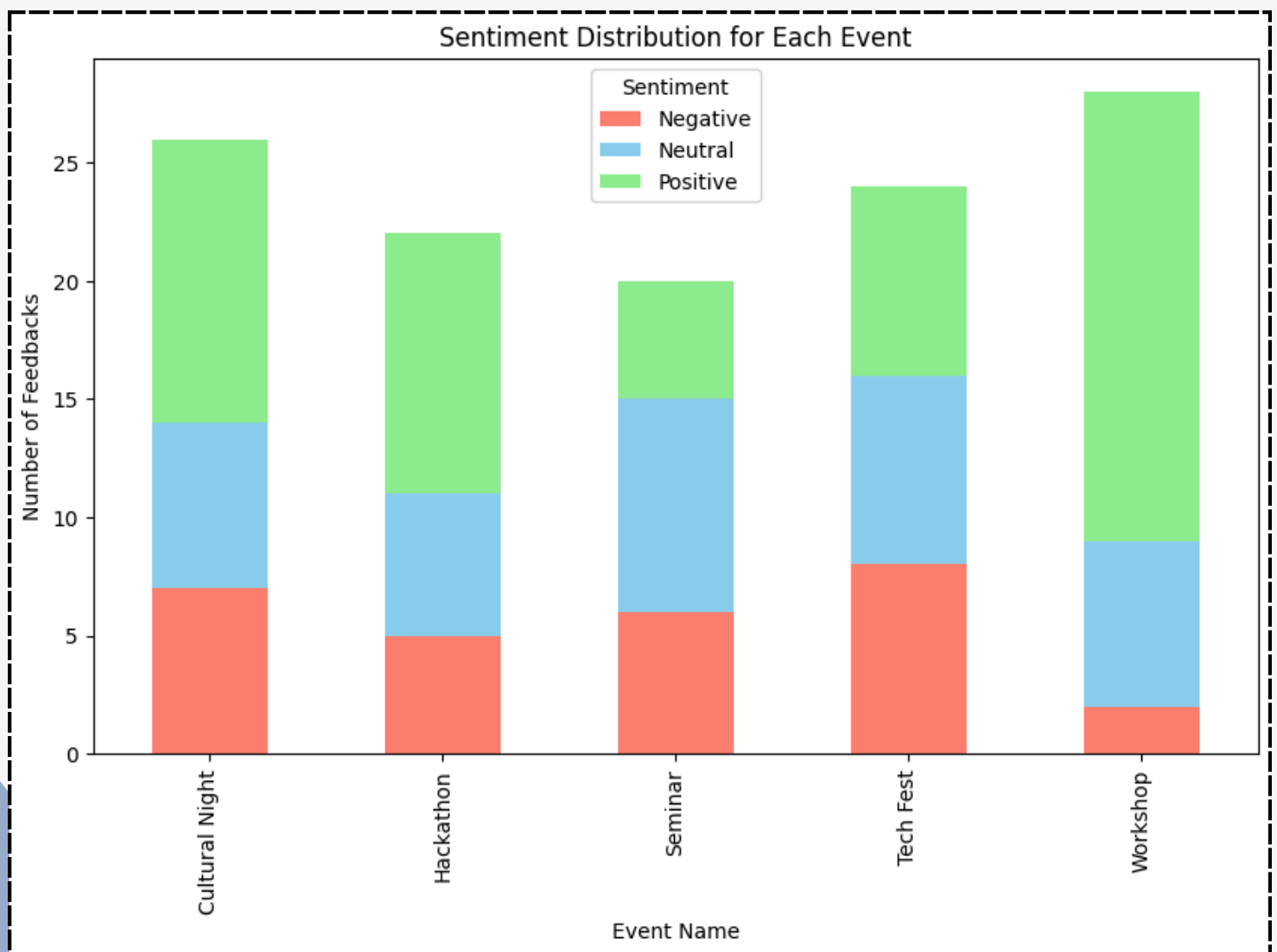
- Ratings Distribution





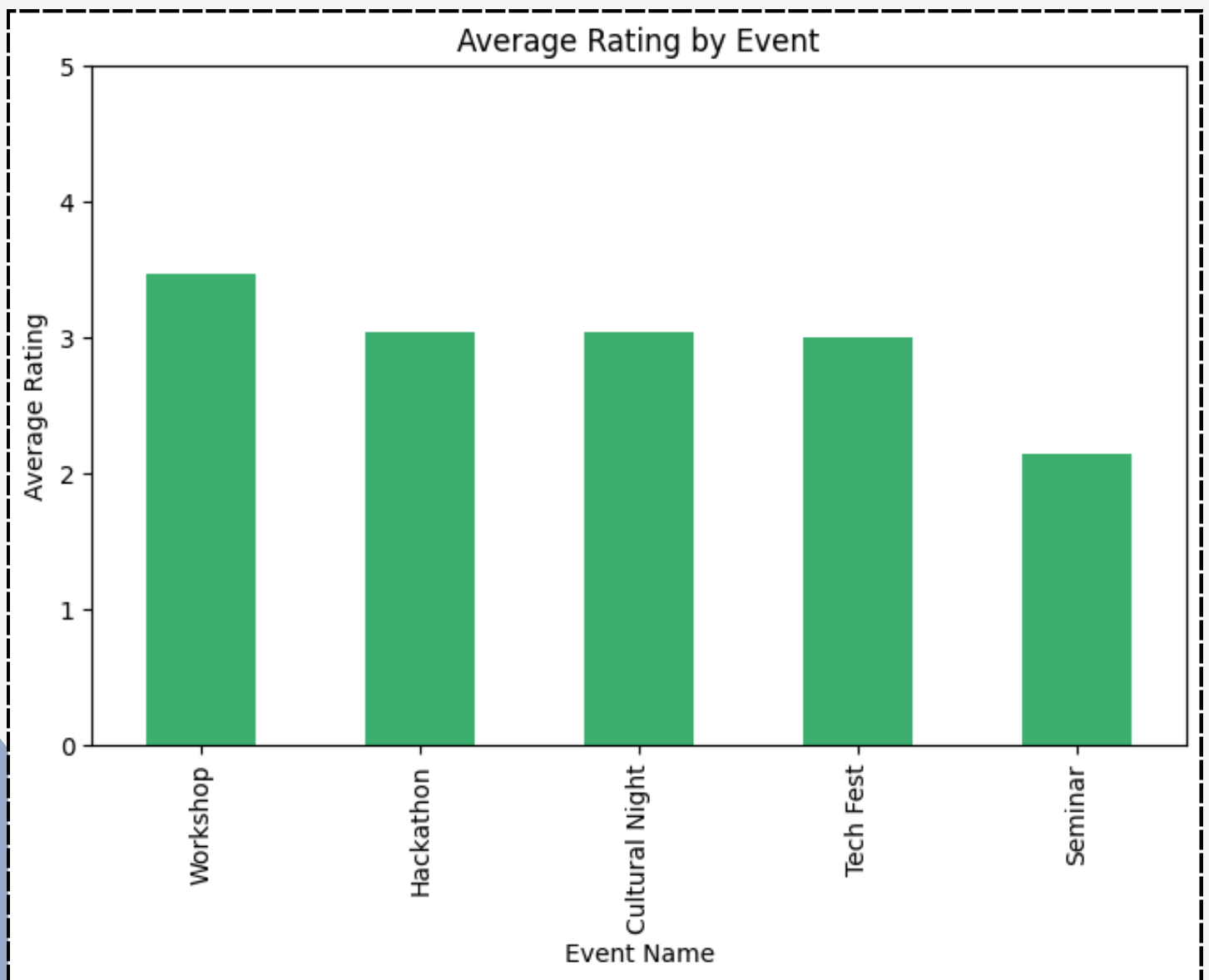
# 5. Visualizations & Results

- Sentiment by Event



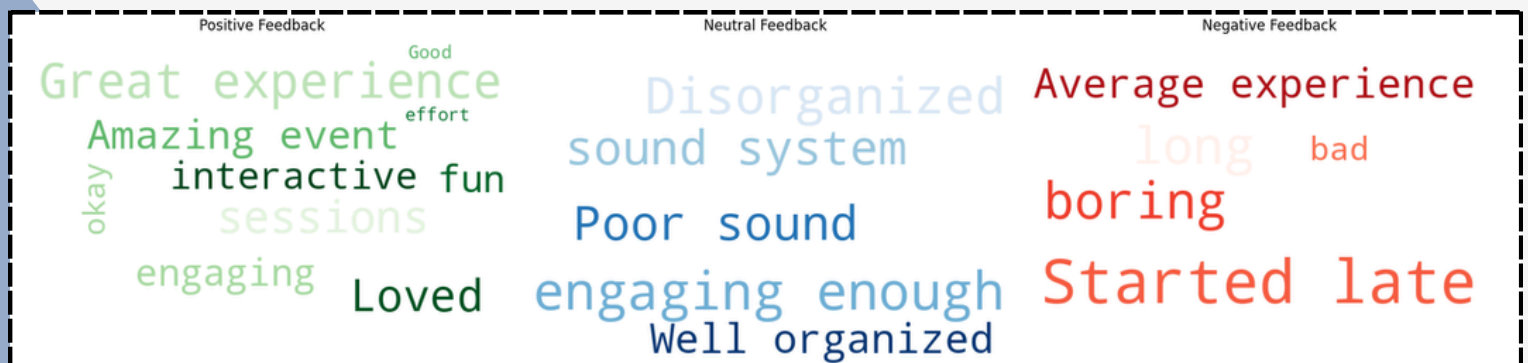
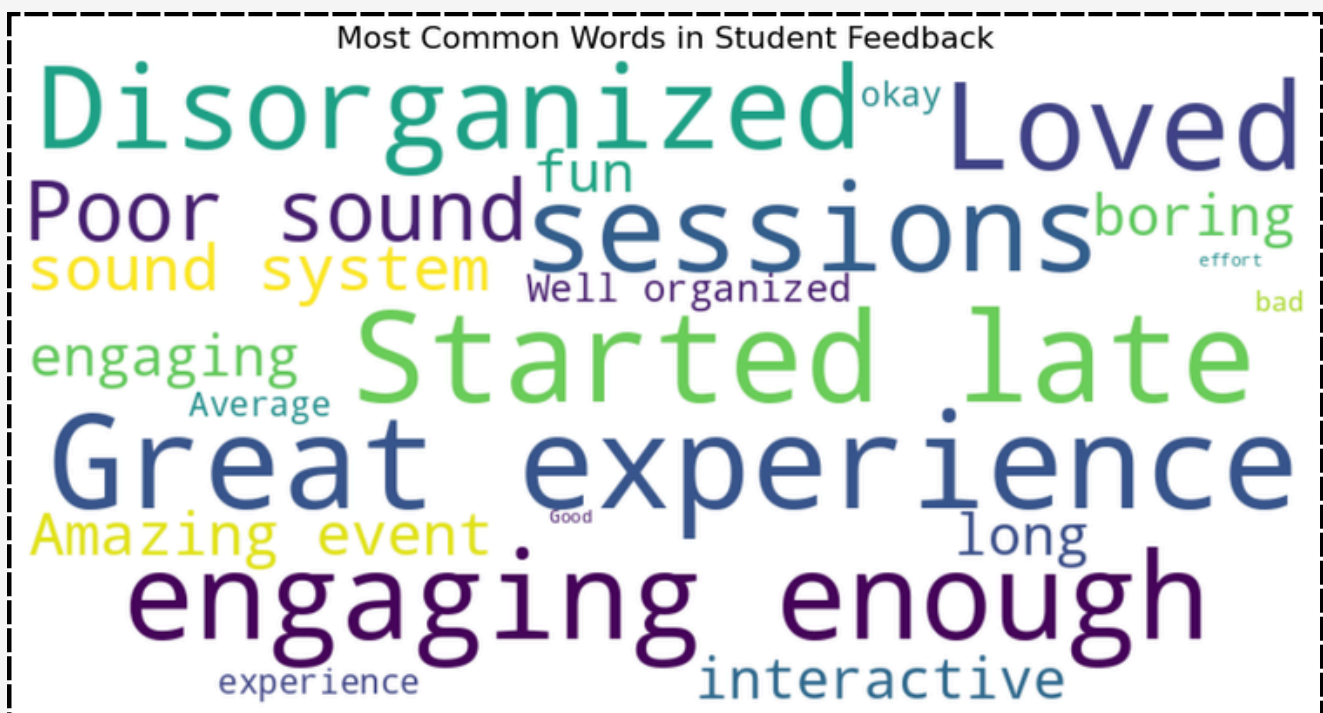
# 5. Visualizations & Results

- Average Rating per Event



# 5. Visualizations & Results

- Word Clouds



## 6. Key Insights

- Continue formats like Tech Fest & Cultural Night.
- Make workshops shorter and more interactive.
- Improve technical arrangements (sound, punctuality).
- Provide feedback reports to departments for quality improvement

## **8. Conclusion**

The analysis shows students generally enjoy college events, with particular success in cultural and tech-based programs.

Addressing logistical and engagement issues in workshops and seminars can further improve overall satisfaction.