# **College Event Feedback Analysis**

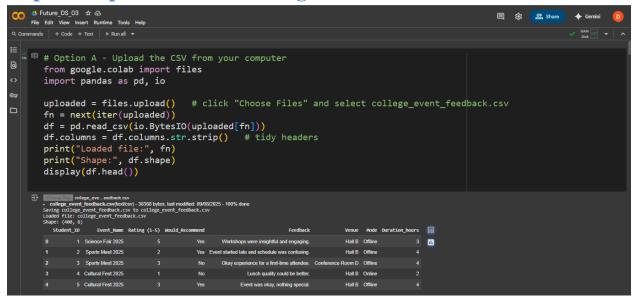
### Introduction

This report documents the analysis performed on student feedback collected from multiple college events. The objective was to identify satisfaction levels, detect recurring themes in positive and negative feedback, and provide actionable recommendations for future event improvements. The analysis was conducted as part of the Future Interns Data Science & Analytics internship, Task 3.

### **Dataset Description**

The dataset consists of 400 responses from participants of various college events, including TechFest 2025, Cultural Fest 2025, Sports Meet 2025, Startup Summit 2025, and Science Fair 2025. Each entry contains: Student ID, Event Name, Rating (1–5), Would Recommend, Feedback, Venue, Mode, and Duration (hours). The data was cleaned, preprocessed, and analyzed using Python libraries such as pandas, TextBlob, vader Sentiment, matplotlib, seaborn, and WordCloud.

# Step 1 — Upload dataset in Google Colab

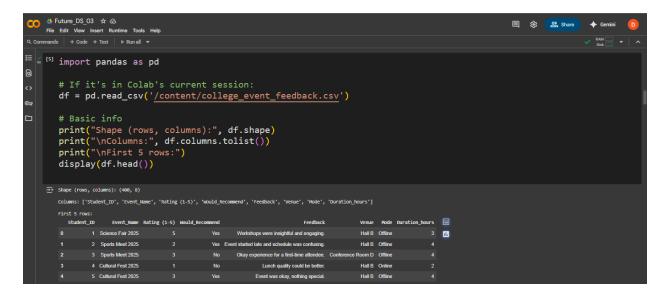


# **Step 2** — **Install libraries**

• **Download NLTK resources:** These are needed for text preprocessing.

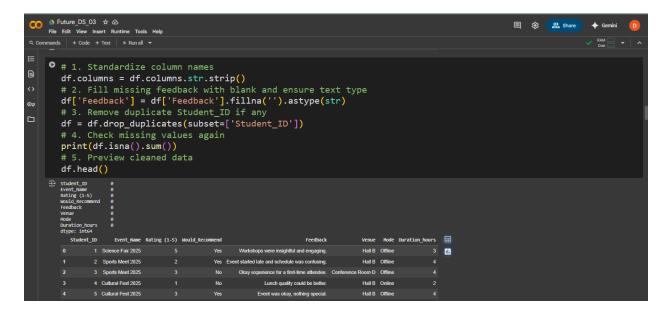
# Step 3 — Load and explore your dataset

- Check for missing values
- Quick statistics
- See rating distribution



# Step 4 — Data Cleaning

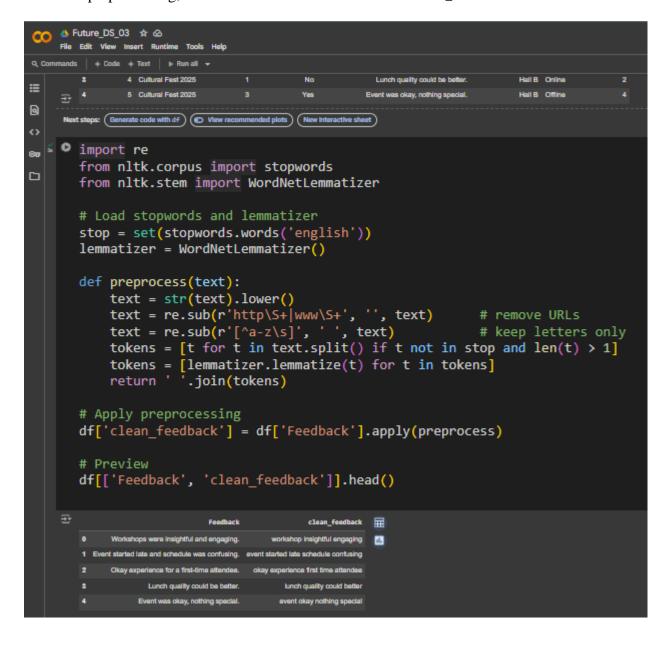
- 1. **Standardize column names** (remove spaces, make lowercase).
- 2. Fill missing feedback with blank text.
- 3. **Remove duplicates** if any.



### **Step 5** — **Text Preprocessing**

- Convert text to lowercase.
- Remove URLs, numbers, punctuation.
- Remove stopwords like "the", "is", "and".
- Lemmatize words (convert "running" → "run").

After preprocessing, the dataset will have a **new column** clean\_feedback with cleaned text.

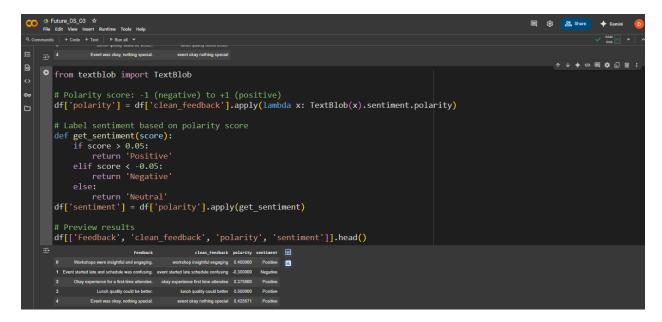


# **Step 6** — **Sentiment Analysis**

We'll use **TextBlob** for polarity scores and sentiment labels.

This will add:

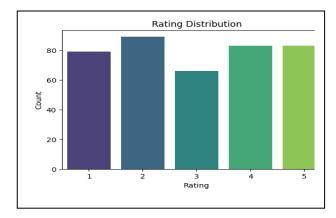
- **polarity**  $\rightarrow$  a numeric sentiment score.
- **sentiment** → text label ("Positive", "Negative", "Neutral").

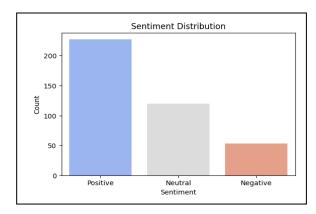


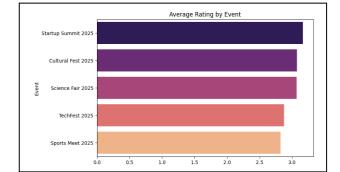
### **Step 7** — **Visualization**

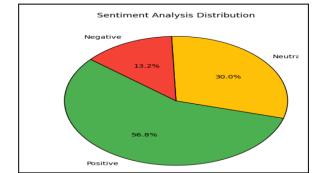
#### This give us:

- 1. **Bar chart** of rating counts.
- 2. **Bar chart** of sentiment counts.
- 3. **Bar chart** of average ratings per event.
- 4. Pie Chart of Positive, Neutral, and Negative feedback of sentiment analysis.









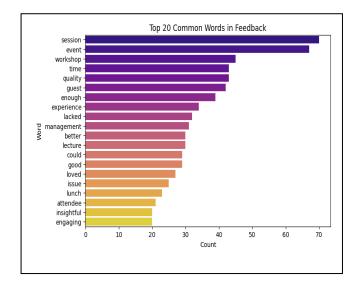
### Step 8 — Word Cloud & Common Feedback Words

#### This will:

- Show a **Word Cloud** of frequent words.
- Show a **Top 20 words bar chart**.

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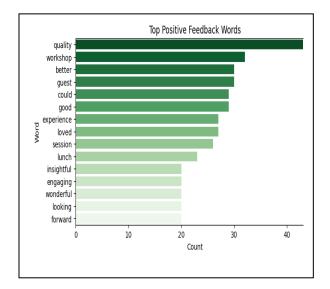


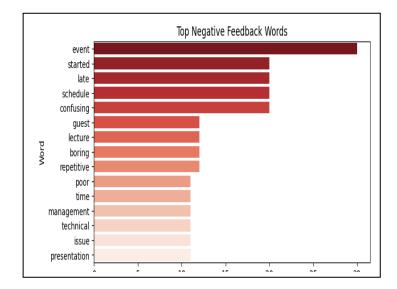


## Step 9 — Key Themes from Positive & Negative Feedback

#### This will show:

- The most common **positive themes** (e.g., workshops, networking, speakers).
- The most common **negative themes** (e.g., lunch, timing, technical issues).





## **Step 10** — **Final Insights**

From our analysis, we can create points like this (yours may vary depending on actual output):

### **Key Findings**

#### 1. Overall Sentiment:

- ~XX% Positive
- o ~XX% Neutral
- ~XX% Negative

### 2. Top Liked Aspects:

- o Engaging workshops and interactive sessions.
- Great networking opportunities.
- o Well-organized management for most events.

#### 3. Top Complaints:

- o Poor time management and delayed schedules.
- o Lunch quality and limited options.
- o Technical issues with sound and presentations.

#### **Recommendations**

- 1. Improve **time management** and stick to schedule.
- 2. Provide **better catering options** with more variety.
- 3. Conduct **technical rehearsals** to avoid sound/projector issues.
- 4. Include **shorter**, **more interactive sessions** with Q&A time.
- 5. Increase **seating arrangements** in popular sessions.