

Mini Project Report – College Event Feedback Analysis

1. Objective

The goal of this project was to analyze student feedback from various college events (like *TechFest*, *Hackathon*, *Workshop on AI*, and *Cultural Fest*) to identify satisfaction trends and areas for improvement using data science tools.

2. Tools & Technologies Used

Tool / Library	Purpose
Python (pandas, matplotlib, seaborn)	Data cleaning, analysis, and visualization
TextBlob	Sentiment analysis of feedback comments
WordCloud	Visualization of most frequent words in comments
Jupyter Notebook	Code execution and documentation

3. Methodology

- Data Loading** – A CSV file with 50 records was imported using pandas.
 - Data Cleaning** – Duplicates and missing values were removed.
 - Exploratory Data Analysis (EDA)** –
 - Calculated event-wise average ratings.
 - Visualized distribution of ratings.
 - Sentiment Analysis** – Classified feedback comments as *Positive*, *Neutral*, or *Negative* using TextBlob.
 - Visualization** –
 - Bar chart for average event ratings.
 - Pie chart for sentiment distribution.
 - Word cloud for common feedback terms.
 - Insights & Recommendations** – Interpreted results for actionable conclusions.
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4. Key Findings

Aspect	Insight
Highest Rated Event	Cultural Fest (Avg. 3.8 / 5)
Lowest Rated Event	Seminar on Data Science (Avg. 2.7 / 5)
Dominant Sentiment	Positive (approx. 70% comments)

Most students appreciated the coordination, organization, and learning aspects. However, a few comments mentioned the need for more interactive and engaging sessions.

5. Visual Insights

- **Rating Distribution:** Majority of students rated events 4 or 5.
 - **Sentiment Pie Chart:** Positive feedback dominates, showing overall satisfaction.
 - **Word Cloud:** Frequent words include *great, organized, informative, experience, and helpful.*
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6. Recommendations

- Continue organizing popular events like *Cultural Fest* frequently.
 - Improve engagement and interaction in lower-rated events.
 - Regularly collect and analyze feedback to maintain student satisfaction.
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7. Conclusion

The analysis demonstrates that most students are satisfied with college events. Sentiment analysis helped identify both positive highlights and improvement areas, making this approach valuable for **data-driven event management** in colleges.