

## **Future Interns Task 3**

### **Student Feedback Analysis**

#### **1. Introduction :-**

**Student feedback is a critical indicator of teaching quality, event effectiveness, and institutional engagement. This project analyzes structured student survey data to evaluate satisfaction levels, identify high-performing academic practices, and surface areas of concern using data analytics and NLP-inspired techniques.**

**The analysis is designed for college management and academic coordinators to support data-driven decisions for improving student experiences.**

#### **2. Objective :-**

**The primary objectives of this analysis were to:**

- Measure overall student satisfaction**
- Identify top-rated events / academic practices**
- Compare satisfaction across departments**
- Infer event types and compare performance**
- Extract common complaint themes**
- Provide actionable, data-backed recommendations**

### **3. Dataset Overview**

- **Records:** 580 survey entries
- **Columns:** 12
- **Key Fields Used:**
  - Questions → Proxy for Event / Activity
  - Average / Percentage → Satisfaction Score
  - Basic Course → Department

### **4. Exploratory Data Analysis (EDA)**

#### **Overall Satisfaction Distribution :-**

- **Majority of satisfaction scores fall between 65%–90%**
- **Indicates generally positive student perception**
- **Small tail of low satisfaction (~30–50%) highlights improvement areas**

### **5. Required Analytical Insights**

#### **Top 3 Highest-Rated Events / Practices**

**Based on average satisfaction :-**

- 1. Fairness of internal evaluation process**

## **2. Teacher communication effectiveness**

## **3. Teacher preparation for classes**

## **6. Departments Hosting the Most-Liked Events**

### **Top departments by satisfaction :-**

- **MSc Information Technology**
- **B.Com (Banking & Insurance)**
- **Bachelor of Arts**
- **BBA (Management Studies)**
- **B.Com (Accounting & Finance)**

## **7. Workshop vs Seminar Satisfaction**

- **Most activities fall under “Other”, indicating:**
  - **Lack of explicit event categorization**
- **Wide satisfaction spread:**
  - **High performers near 100%**
  - **Low outliers below 40%**

## **8. NLP & Complaint Analysis**

 **Common Complaint Themes (Word Cloud)**

**Key recurring terms from low-rated areas:**

- **Teaching**
- **Use of ICT tools**
- **Learning process**
- **Projectors & multimedia**
- **Identification & evaluation**
- **Mentoring**

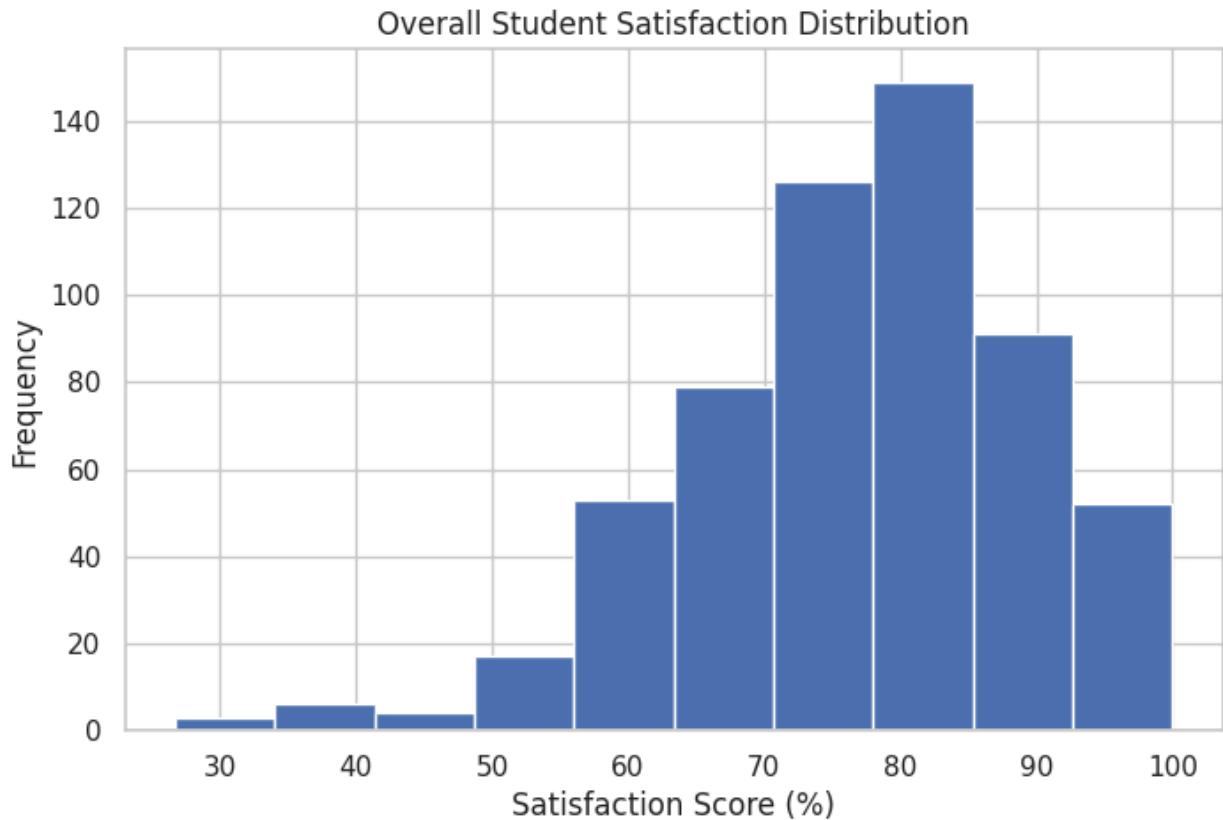
## **9. Key Findings :-**

- **Overall student satisfaction is high, but inconsistent**
- **Teaching quality and fairness drive positive perception**
- **Technology usage is a major pain point**
- **Some departments consistently outperform others**
- **Data structure limits deeper sentiment analysis**

## **10. Dashboard Summary & Insights**

### **1. Overall Student Satisfaction Distribution :-**

- **The satisfaction scores are strongly concentrated between 65% and 90%.**
- **The peak of the distribution lies around 75–85%, indicating generally high student satisfaction.**
- **A small but important tail below 50% exists, highlighting specific problem areas that need attention.**



💡 **Insight :-**

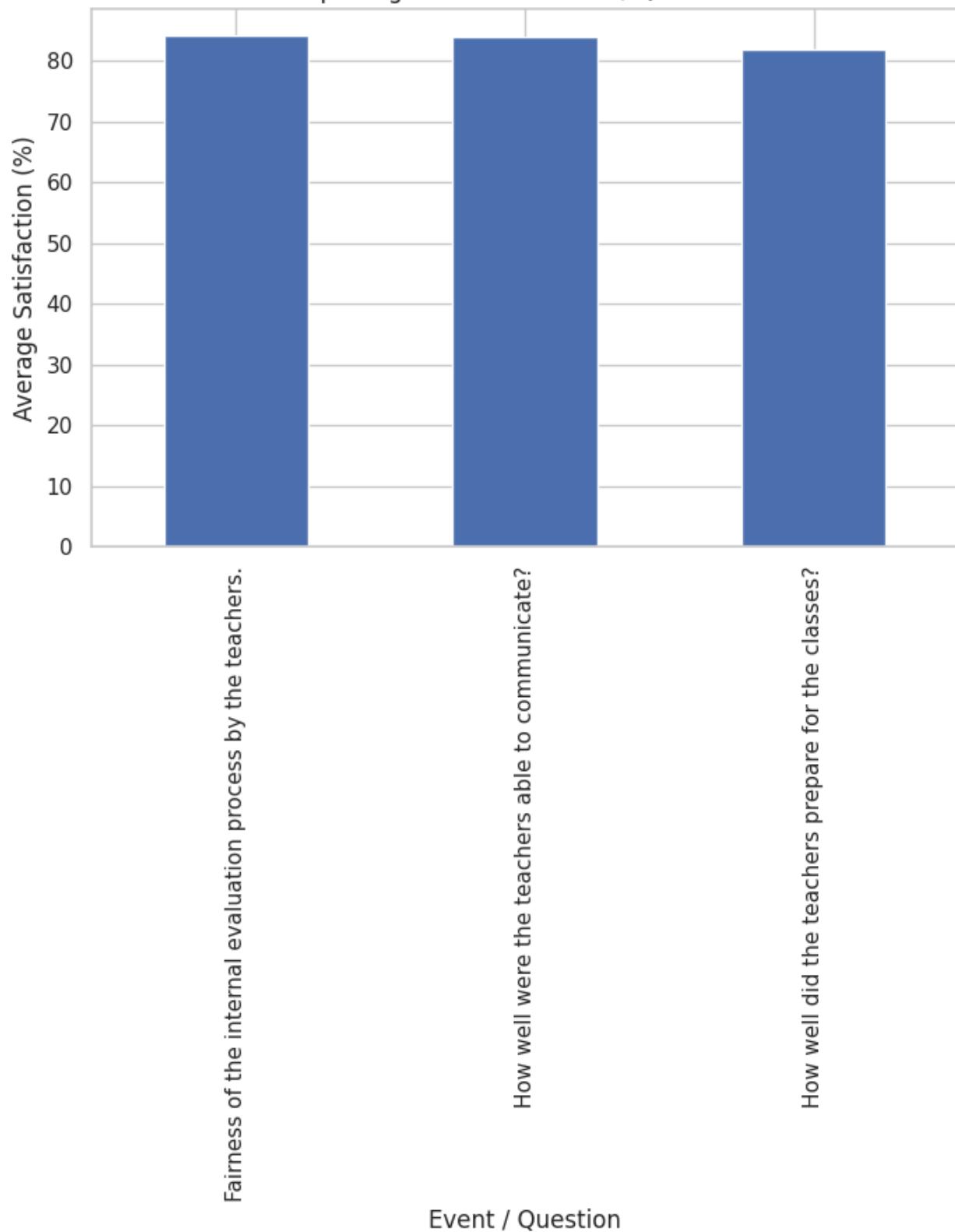
**Most students are satisfied, but low-performing areas cannot be ignored, as they impact overall student perception and institutional quality.**

## 2. Top 3 Highest Rated Events / Questions

**The highest-rated aspects are:**

- 1. Fairness of the internal evaluation process**
- 2. Teachers' ability to communicate concepts clearly**
- 3. Teachers' preparation for classes**

Top 3 Highest Rated Events / Questions



 **Insight :-**

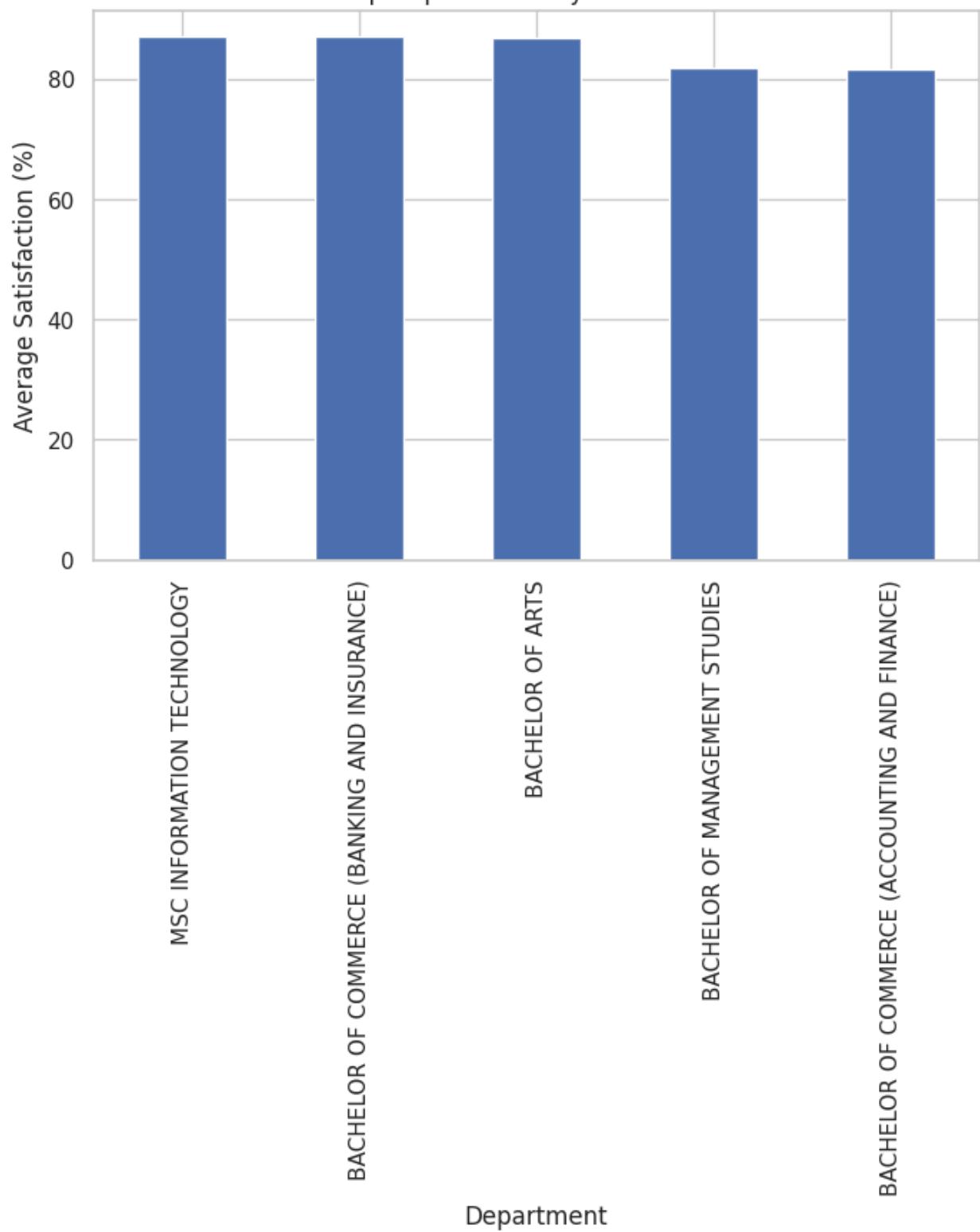
**Students value fair assessment, clear communication, and well-prepared faculty more than any other factors. These are core institutional strengths.**

### **3. Top Departments by Satisfaction**

**Departments with the highest average satisfaction:**

- **MSc Information Technology**
- **B.Com (Banking & Insurance)**
- **Bachelor of Arts**
- **Bachelor of Management Studies**
- **B.Com (Accounting & Finance)**

Top Departments by Satisfaction



## Insight

**Programs with structured curricula, practical exposure, and technology integration consistently receive higher satisfaction scores.**

### **4 Workshop vs Seminar Satisfaction Comparison**

- Most activities fall under “Other”, indicating missing or unclear event classification.
- Satisfaction varies widely:
  - Some events achieve near 100% satisfaction
  - A few outliers drop below 40%



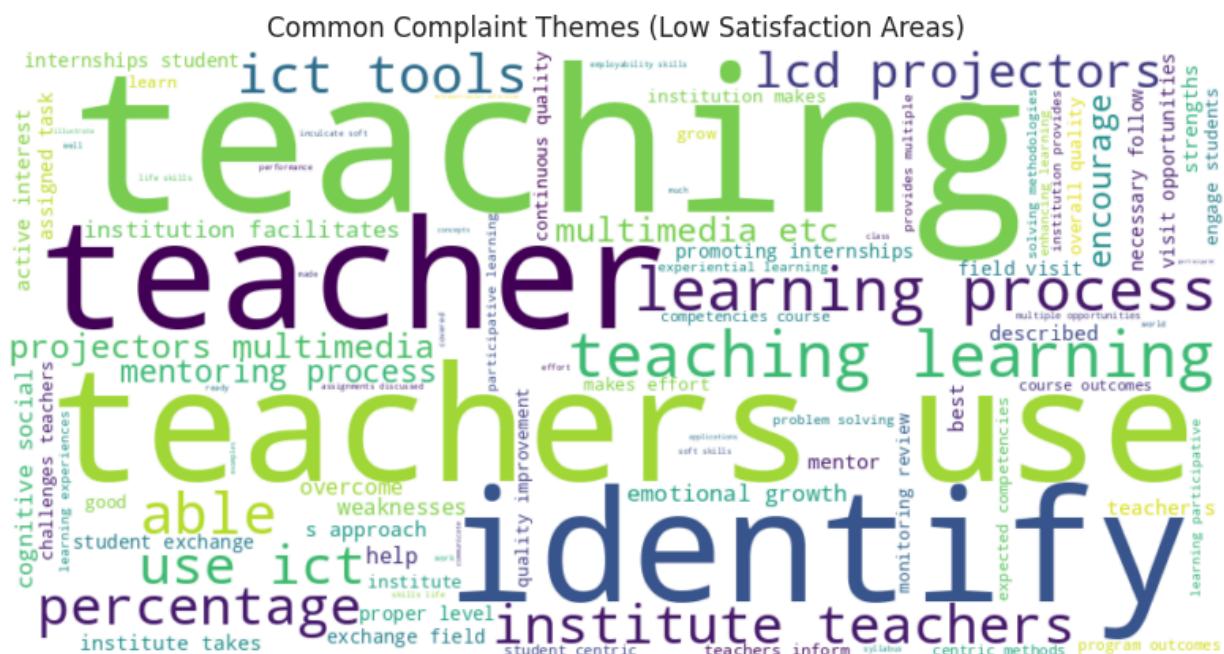


**The inconsistency suggests uneven event quality and highlights the need for standardized event planning and categorization.**

## **5 Common Complaint Themes (Word Cloud)**

## **Frequently occurring complaint-related terms:**

- **Teaching**
  - **Use of ICT tools**
  - **Learning process**
  - **LCD projectors / multimedia**
  - **Mentoring**
  - **Identification & evaluation clarity**





**Dissatisfaction is driven not by subject content, but by delivery methods, technology usage, and learning infrastructure.**

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## Key Recommendations for Event Organizers

### **1. Improve Teaching Delivery Quality**

- **Conduct regular faculty development programs on:**
  - **Interactive teaching**
  - **Student engagement techniques**
- **Encourage best-practice sharing from top-performing departments.**

***Justification:* Teaching-related factors dominate both high ratings and complaint themes.**

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### **2. Upgrade ICT & Learning Infrastructure**

- **Ensure all classrooms and events have:**
  - **Functional LCD projectors**
  - **Reliable audio-visual equipment**

- Train faculty on effective use of ICT tools.

***Justification:*** “ICT tools”, “multimedia”, and “projectors” appear prominently in complaint analysis.

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### **3. Standardize Event Planning & Classification**

- Clearly label events as:
  - Workshop
  - Seminar
  - Guest Lecture
  - Training Session
- Use standard feedback forms aligned with event type.

***Justification:*** Poor classification limits meaningful comparison and quality control.

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### **4. Focus on Low-Satisfaction Areas**

- Identify questions/events below the 25th percentile.
- Conduct focused review meetings for these areas.
- Introduce corrective action plans.

***Justification:* A small set of low performers significantly affects overall satisfaction.**

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## **5. Improve Feedback Collection**

- Add open-ended comment fields in future surveys.
- Collect event-specific feedback immediately after completion.

***Justification:* This will enable true sentiment analysis and deeper insight generation.**

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## **Final Conclusion**

**The analysis shows that the institution performs strongly in teaching fairness and communication, but faces challenges in technology usage, event consistency, and delivery quality.**

**By addressing these gaps with targeted improvements, event organizers can:**

- Enhance student engagement
- Improve learning outcomes
- Strengthen institutional reputation

- **Enable advanced analytics in future surveys**
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