Student Feedback Analysis — Campus Courses & Events

Project Summary

This report analyzes student feedback data (n = 1001 responses) collected from campus courses and activities. Data source: Google Form export (CSV). Ratings were on a 1–10 scale and rescaled to 1–5 for comparison.
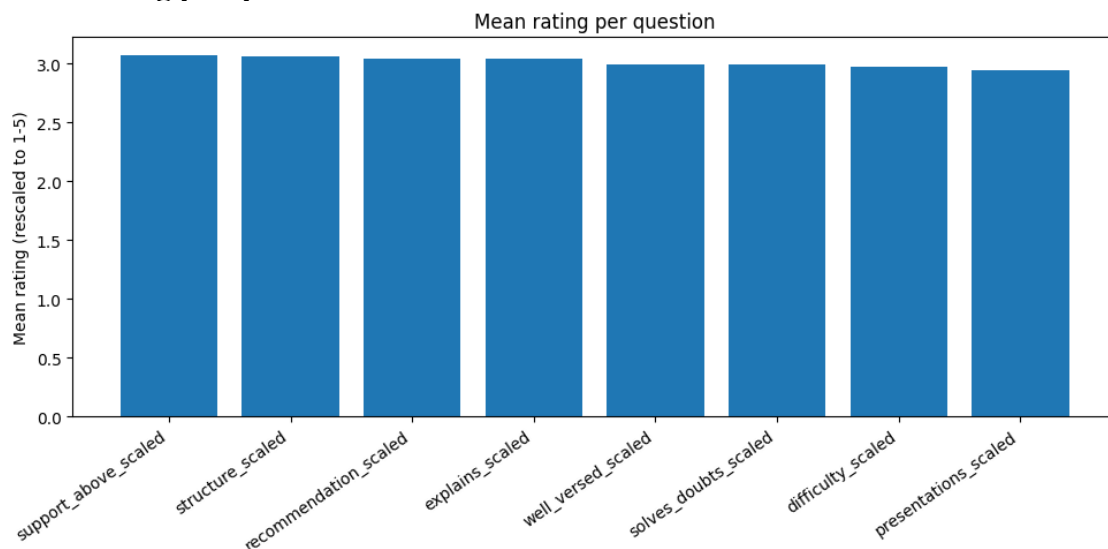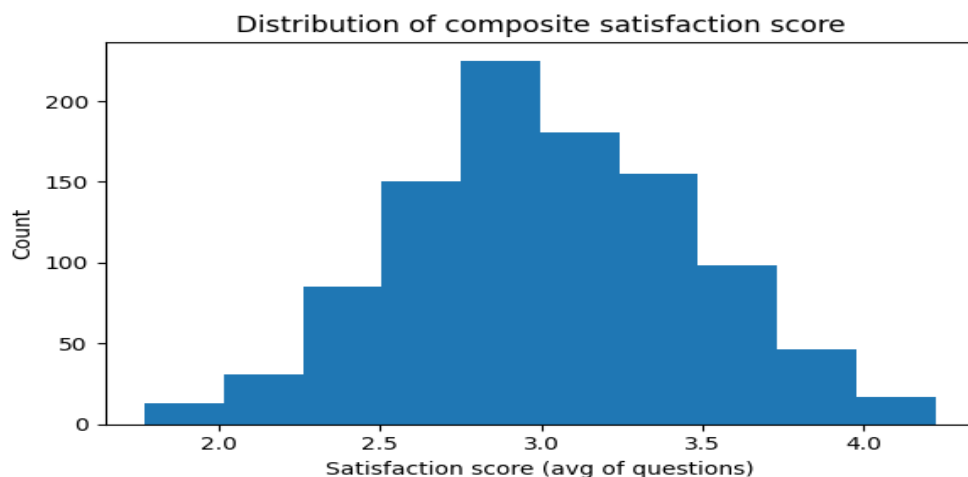

Key Metrics

- **Total responses:** 1001
- **Overall mean satisfaction (composite):** ~5.9/10 (≈ 3.0/5 after rescaling)
- **Top 3 strengths (highest mean ratings):**
  - Well versed with the subject — **7.50 / 10**
  - Explains concepts in an understandable way — **6.08 / 10**
  - Use of presentations — **5.94 / 10**
- **Top 3 improvement areas (lowest mean ratings):**
  - Degree of difficulty of assignments — **5.43 / 10**
  - Solves doubts willingly — **5.47 / 10**
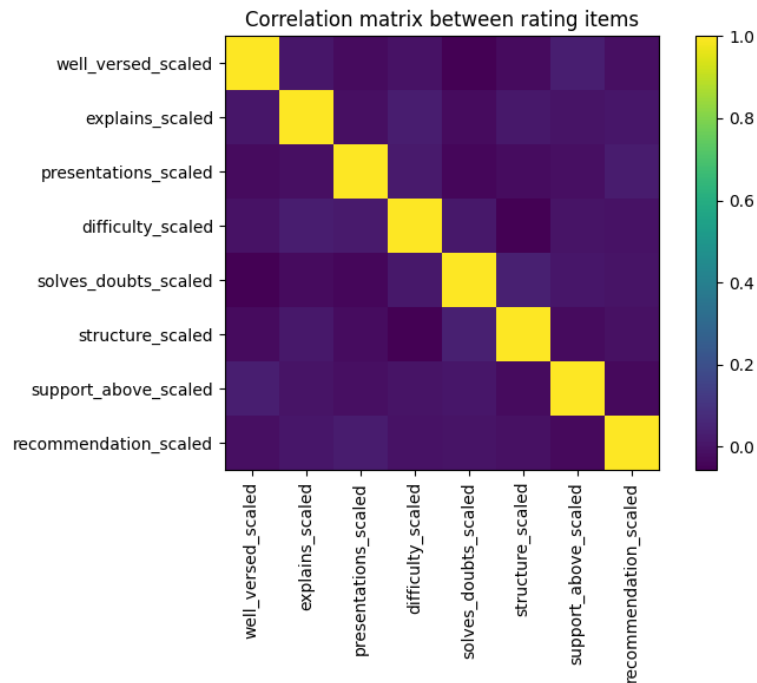 - Course recommendation based on relevance — **5.60 / 10**

Visuals
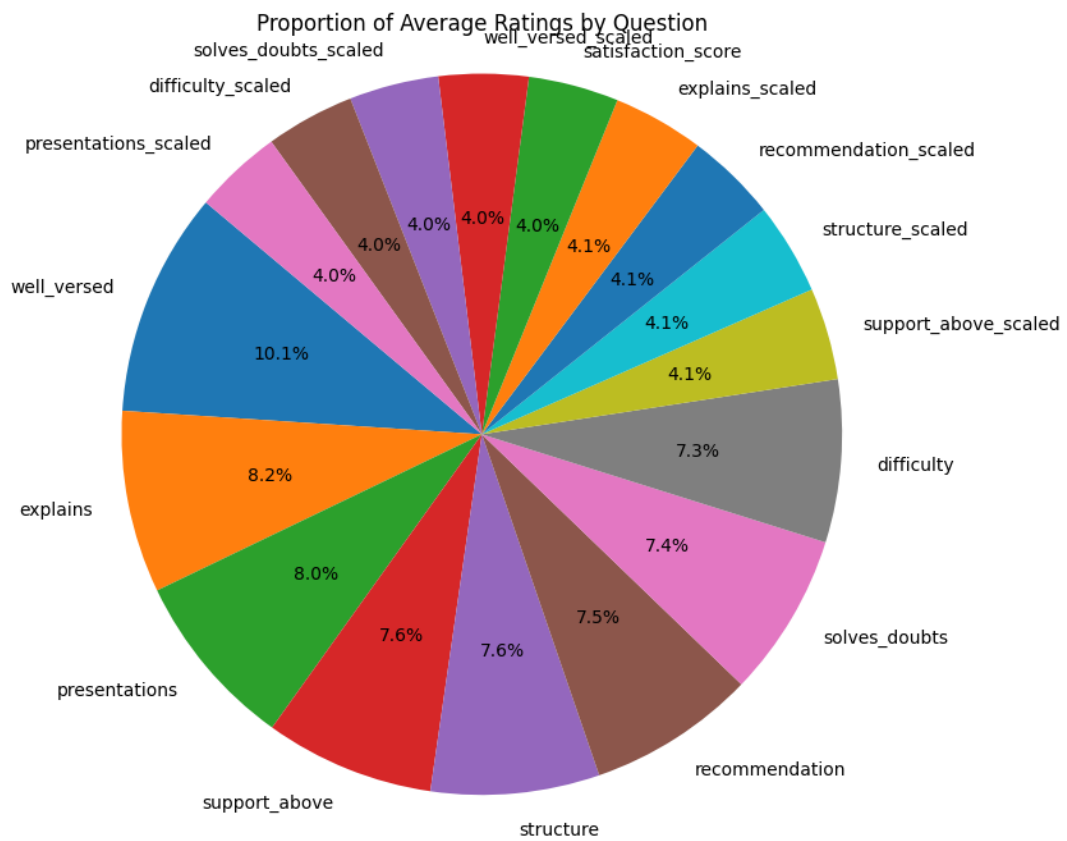
Mean rating per question

Distribution of overall satisfaction

Correlation matrix (and plot)

Correlation matrix between rating items

Pie chart of average satisfaction per question

Proportion of Average Ratings by Question

Short Analysis & Insights

- Students consistently rate subject knowledge very high (**7.5/10**), showing confidence in faculty expertise.
- Explanation clarity also scored above average (**6.08/10**), indicating effective teaching delivery.
- Support-related aspects (solving doubts, providing above-and-beyond help) scored relatively lower ($\approx$ **5.4–5.6/10**), suggesting an area to strengthen.
- Course recommendation average is moderate (**5.6/10**), which could impact student motivation to attend future events.
- Assignment difficulty received mixed feedback (mean **5.43/10**), pointing to the need for better alignment with learning levels.

Concrete Recommendations

- **Priority 1 — Strengthen student support**
  Provide structured doubt-clearing sessions (office hours, peer mentors, or TA support) to ensure students feel more guided.

- **Priority 2 — Balance assignment difficulty**
  Standardize assignment guidelines, publish expected prerequisites, and offer optional preparatory material to align challenges with student capabilities.

- **Priority 3 — Improve event recommendation rate**
  Conduct short focus groups to understand why students hesitate to recommend courses/events. Adjust content delivery, pacing, or highlight career relevance.

- **Priority 4 — Enhance use of presentations**
  Train presenters to design visually engaging slides and enforce interactive formats (10–15 min presentation + Q&A).

- **Priority 5 — Collect more qualitative feedback**
  Add a "comments/suggestions" box to capture student voice beyond numbers for richer insights.

Appendix
- **Data dictionary**: Each column represents a student rating on a 1–10 scale, covering subject knowledge, teaching clarity, presentation use, assignment difficulty, doubt-solving, course structure, additional support, and course recommendation.
- **Code link (Colab)**: Analysis performed in Google Colab using pandas, matplotlib, and optional NLP libraries.
- **Assumptions**: Ratings rescaled from 1–10 $\rightarrow$ 1–5 for comparability. No text comments were present in this dataset.