📊 Subject Analysis Report: Design and Analysis of Algorithms (DAA)

📄 Introduction

This report presents an in-depth analysis of student performance in the subject **Design and Analysis of Algorithms (DAA)** based on scraped academic records. The analysis includes insights into practical, mid-semester, and external examination performance.

🚫 Missing Data Records

While scraping the data, results of **5 students** were not found. I don't know the exact reason behind this.

📌 Note on Lateral Entry (LE) Students

This analysis does **not include Lateral Entry (LE)** students.

🏅 Students with Full Marks in Practical

5 students secured **20 out of 20** in the DAA practical examination.

I have intentionally not revealed their registration numbers – I did this analysis just for visualization purpose. You can also try visualizing your own classmates for fun!

As per my experience, this was the toughest practical exam I've ever encountered in college. The questions were long and required writing full programs by hand. Despite that, these students managed to score full marks — **no syntax errors, no reference issues, no compilation problems.** Hats off to these legends! 🫡

📖 Mid-Semester Examination Analysis

Average Marks (out of 30): **20.236**

Top 7 Mid-Semester Scorers vs External Marks:

- 27 → 32
- 27 → 32
- 26 → 56
- 25 → 47
- 24 → 49
- 24 → 44
- 24 → 53

📝 External Examination Analysis

Top 7 External Scorers vs Mid-Semester Marks:

- 56 → 26
- 53 → 24
- 52 → 23
- 51 → 24
- 51 → 17
- 50 → 22
- 49 → 24

🔁 Common High Performers

4 students appeared in both the top 7 internal and external lists. This consistency reflects their strong and balanced academic performance in the subject.

🏆 Top 7 Students Based on Total Marks (Out of 100)

1. 82
2. 77
3. 75
4. 75
5. 73
6. 72
7. 72

Once again, **4 students** are common with the top 7 mid-semester scorers, highlighting their consistent excellence.

💻 GitHub Repository

Want to explore the code, dataset, or contribute?
🔗 **Check out the project here on GitHub**

Follow me on github guys.

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Prepared and analyzed by **Sumit Kumar**