

Data Analytics Project: Student Scores Analysis

By Carl Foley

This project analyzes student score data to uncover patterns and trends that can guide educational improvements. The dataset was cleaned and processed in Excel to prepare for analysis.

****Project Goals:**** 1. Explore patterns in student performance. 2. Identify subjects with highest and lowest average scores. 3. Suggest data-driven recommendations for educators.

****Methodology:**** - Imported dataset and removed missing or invalid values. - Used Excel formulas and pivot tables to summarize scores by subject and student. - Created bar charts for subject comparisons and trends.

****Key Insights:**** - Mathematics had the highest variance in scores across students. - Science showed steady improvement across the term. - A small group of students consistently underperformed in all subjects.

****Recommendations:**** 1. Provide targeted tutoring in Mathematics for students below the median score. 2. Continue current teaching strategies in Science to maintain improvement. 3. Monitor consistently low-performing students for early intervention.

****Conclusion:**** This project highlights the value of data analytics in education. By leveraging even simple tools like Excel, schools can make informed decisions to improve learning outcomes.