Power BI Project- Student Performance Dashboard

Overview :

This Project focuses on analyzing Student academic performance using attendance percentage and marks data. An interactive Power BI dashboards was developed to provide clear insights into student attendance, subject-wise performance,and overall academic outcomes. The dashboard helps teachers and academic administrators monitor performance and make data-driven decisions.

Objectives :

To analyze overall student performance.
To evaluate subject-wise average marks.
To study the relationship between attendance and academic performance.
To identify students who need academic improvement.

Tools & Technologies :

Microsoft Power BI- Data visualization and dashboard creation.
Microsoft Excel - Data cleaning and preparation.
DAX(Data Analysis Expressions) - KPI and calculated measures.

Key Insights :

Students with higher attendance generally show better academic performance.
Certain subjects have lower average marks and require focused attention.
Performance varies across classes and sections.

KPIs Used :

Total Students
Average Marks
Highest Marks
Average Attendance Percentage

Academic Impact :

This dashboard improves visibility into student performance, helps educators identify learning gaps, supports academic planning, and enables informed decision-making to improve student outcomes.

Future Enhancements :

Add pass/fail and grade-wise analysis.
Include exam-wise and monthly performance trends.
Implement predictive analysis using Power BI AI features.

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