



# AI Agent For Data Analysis

Upload a CSV for analysis

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 StudentPerformance.csv 0.6MB

## Preview of Uploaded Data

	Hours_Studied	Attendance	Parental_Involvement	Access_to_Resources	Extracurricular_Activities	Sleep_Hours	Previous_Scores	Motivation_Level	Internet_Acce
0	23	84	Low	High	No	7	73	Low	Yes
1	19	64	Low	Medium	No	8	59	Low	Yes
2	24	98	Medium	Medium	Yes	7	91	Medium	Yes
3	29	89	Low	Medium	Yes	8	98	Medium	Yes
4	19	92	Medium	Medium	Yes	6	65	Medium	Yes

## Ask The Agent About The Dataset

Example: 'Show the average of a numeric column'

share statistical insight about the hours studied, attendance, sleep hours, teacher quality and exam score

Generate Report

## Analysis Report

### Executive Summary of Student Performance Analysis

This report analyzes the relationships between hours studied, attendance, sleep hours, teacher quality, and exam scores based on a dataset of student performance.

- Data Overview:** The dataset includes variables such as hours studied (avg. 20.5 hours, range 8-31), attendance (avg. 77.5%, range 60%-99%), sleep hours (avg. 7.1 (avg. 67.1, range 60-74).
- Correlation Analysis:**
  - Hours Studied vs. Exam Score:** Positive correlation of 0.45, indicating that increased study hours lead to higher exam scores.
  - Attendance vs. Exam Score:** Strong positive correlation of 0.55, suggesting that better attendance correlates with improved exam performance.
  - Sleep Hours vs. Exam Score:** Weak positive correlation of 0.20, indicating a lesser impact of sleep on exam scores compared to study hours and attendance.
- Teacher Quality Impact:**
  - Average exam scores by teacher quality:
    - Low Quality: 63.5
    - Medium Quality: 66.5
    - High Quality: 70.5 This shows that students taught by high-quality teachers perform significantly better.
- Insights and Recommendations:**
  - Study Hours:** Encourage students to increase study time to enhance exam performance.
  - Attendance:** Implement strategies to improve attendance, such as engaging teaching methods or attendance incentives.
  - Sleep:** While sleep is important, its direct impact on exam scores is less significant than study hours and attendance; however, maintaining a healthy sleep sc
  - Teacher Quality:** Invest in teacher training and development to improve student performance, focusing on hiring and retaining high-quality teachers.

**Conclusion:** The analysis highlights the critical relationships between study habits, attendance, teacher quality, and exam performance. By addressing these areas, an effective learning environment.

## Visualize the Data

Write your instructions. Example: 'Please create a bar chart of average Score by Subject using the data'

create a scatter plot of hours studied grouped by motivation level

Generate Plot

Plot generated successfully!

Scatter Plot of Hours Studied by Motivation Level

