



## Worksheet #4 S1E9 Part 3: “Using AI for Data Analysis and Visualization”

**Objective:** Students will learn how to use AI tools to organize, analyze, and visualize data. They will practice inputting data into AI platforms, generating visualizations, and interpreting the results to draw meaningful insights.

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Student	Math Score	Science Score	English Score	History Score
Alice	85	92	78	88
Bob	76	85	84	75
Carol	90	91	87	92
Dave	70	78	75	80
Eve	88	90	82	85

### Part 3: Visualizing Data with AI

1. **Creating visualizations:** Ask the AI tool to generate graphs or charts based on the dataset. You can request the following types of visualizations:
  - A bar graph showing the scores of each student in each subject.
  - A pie chart or bar graph comparing the average scores of the subjects (Math, Science, English, History).



**Task:**

- Insert or describe the graphs created by the AI tool below.

**Reflection:**

- How do the graphs help you better understand the data?
  - Which visualization was the most helpful in identifying trends or patterns?
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### **Teacher's Notes:**

- Encourage students to think critically about how AI tools can provide insights but also how they should verify and interpret those results themselves.
- Discuss the importance of using different types of visualizations to highlight specific aspects of the data.
- Highlight the role of AI in handling large datasets quickly, especially for identifying trends that may not be immediately obvious.

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This worksheet will guide students through the process of using AI for data analysis and visualization, helping them develop both technical and analytical skills.