Worksheet #4 S1E9 Part 1:

"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.

Part 1: Understanding the Dataset

1. **Review the dataset**: Below is a sample dataset about student performance in different subjects.

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

2. **Analyze the data**:
   o Look at the dataset and write down any trends or observations you can identify just by looking at the numbers.
   o Which student has the highest overall score? Which subject has the highest average score?

Task:

- Write down two observations about the data without using any AI tools yet.

Reflection:

- What patterns did you notice from your initial look at the dataset?
- Were there any areas where the data seemed unclear or hard to interpret without further analysis?

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.

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