Iris Dataset Visualization Exercises

Step 0: Load the dataset

Exercise 1: Line Plot

   • Plot a line chart showing `sepal_length` for each row (index on x-axis, sepal_length on y-axis).

Exercise 2: Scatter Plot

   • Plot a scatter plot of `petal_length` vs `petal_width`.
   • Color the points by `species` to distinguish the flower types.

Exercise 3: Histogram

   • Plot a histogram of `petal_length` to see the distribution of petal lengths.

Exercise 4: Box Plot

   • Create a box plot to compare `petal_length` across different `species`.

Exercise 5: Bar Plot

   • Plot the average `sepal_length` for each `species` using a bar chart.

Optional Challenge:

   • Create a **pair plot** to visualize all pairwise relationships between numerical columns, colored by `species`.