2. Line Plot

Average Sepal Length by Species

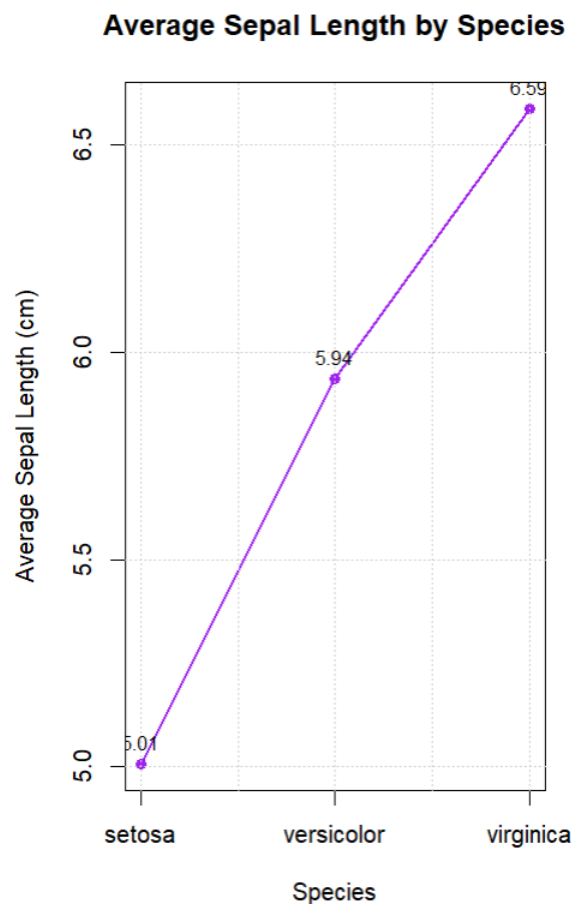## Line Plot Analysis of Iris Dataset

A line plot is commonly used to show trends or changes in data across categories or continuous variables. In this line plot of the built-in Iris dataset, the relationship between the three species — *setosa*, *versicolor*, and *virginica* — is represented in terms of their **average Sepal Length**.

- The **x-axis** represents the three flower species — *setosa*, *versicolor*, and *virginica*.

- The **y-axis** shows the **average Sepal Length** (in cm).

- The **purple line** connects the mean values for each species.

- The **numeric labels** above each point display the exact average Sepal Length, rounded to two decimals.

Species	Average Sepal Length(cm)
Setosa	5.01
Versicolor	5.94
Virginica	6.59

As we move from *setosa* to *versicolor* to *virginica*, the average sepal length increases steadily. This pattern indicates that *virginica* flowers generally have the longest sepals, while *setosa* has the shortest.