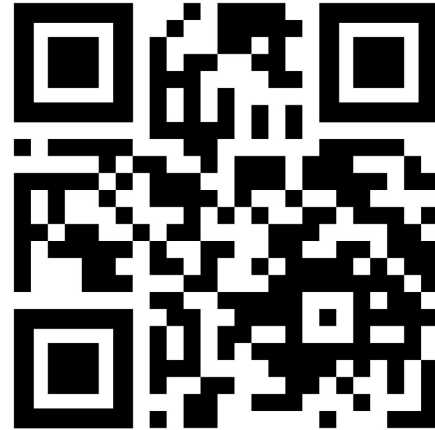




Before we start..



Consent Form



Accessibility Form

Search For

> **Sheffield University Data Science Society > 2024-2025**

> **Sandbox Sessions > DataVis > DataVis SandBox.ipynb**

1. Download the file



2. Do one of the following:

Save it on the same folder you use for VSCode

OR

Upload to your Google Drive for Colab

Open DataVis Guide And VSCode Guide
from our website



DataVis Guide



[VS Code Guide](#)

<https://uosdss.wordpress.com>

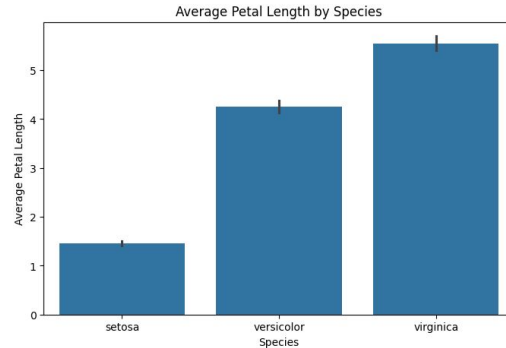
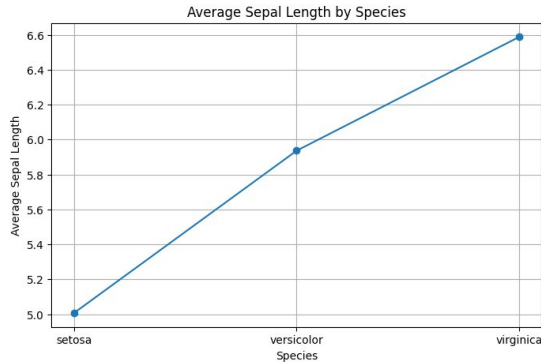


Setup

**Install / Import Library,
Import Iris Dataset**

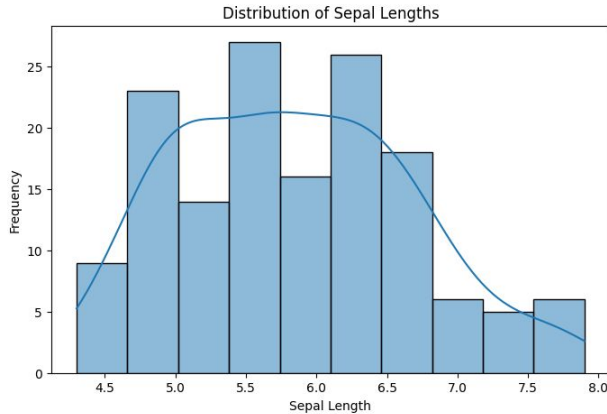
challenge 1

- Create a basic Line Plot
- Create a basic Bar Chart
- Add Labels, Title and Grid



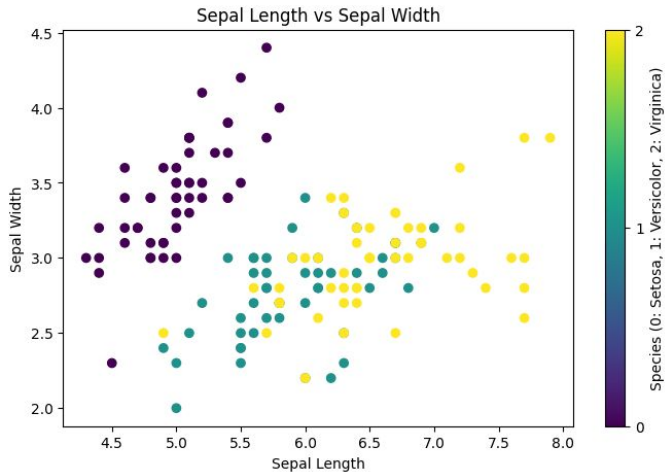
challenge 2:

- Create a Histogram
- Is it skewed? What Statistics can you draw from it?



challenge 3:

- Create a Scatter Plot
- Add some colour, how can we know what class the data points belong to?



challenge 4

- Create a Box Plot
- Add a palette, a grid, detail
- Can you tell what the outliers are from this?

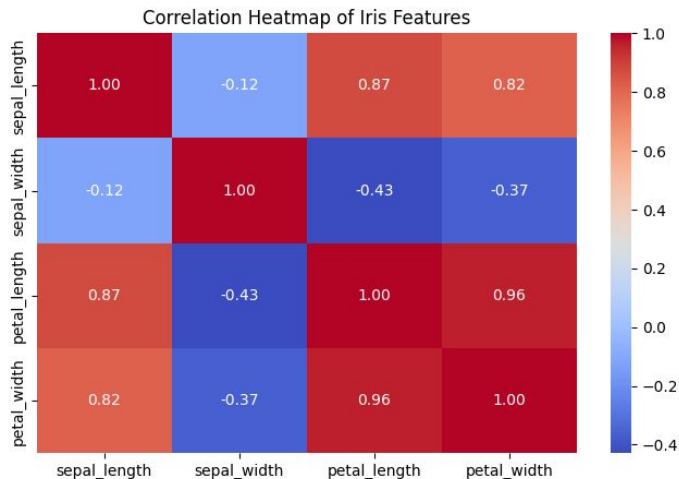


challenge 5

- Create a Heatmap
- Can you now tell which features are creating noise?
- Make sure all number has 2 decimal places

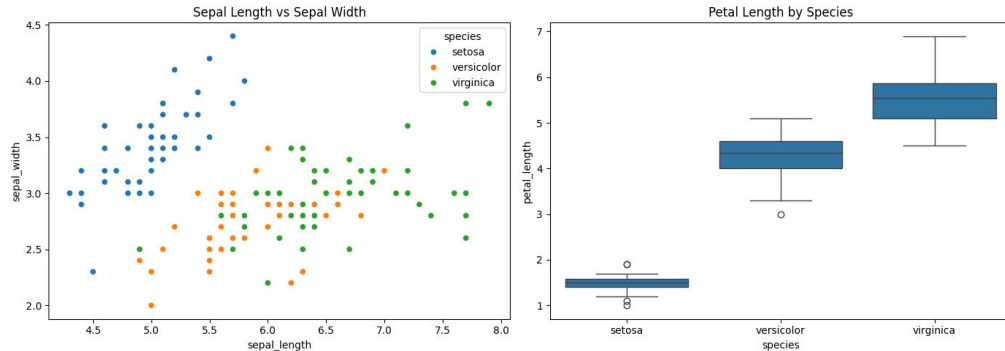
Hint to calculate the correlation for only numeric features

```
correlation =  
iris.select_dtypes(include=['float64', 'int64']).corr()
```



Challenge 6

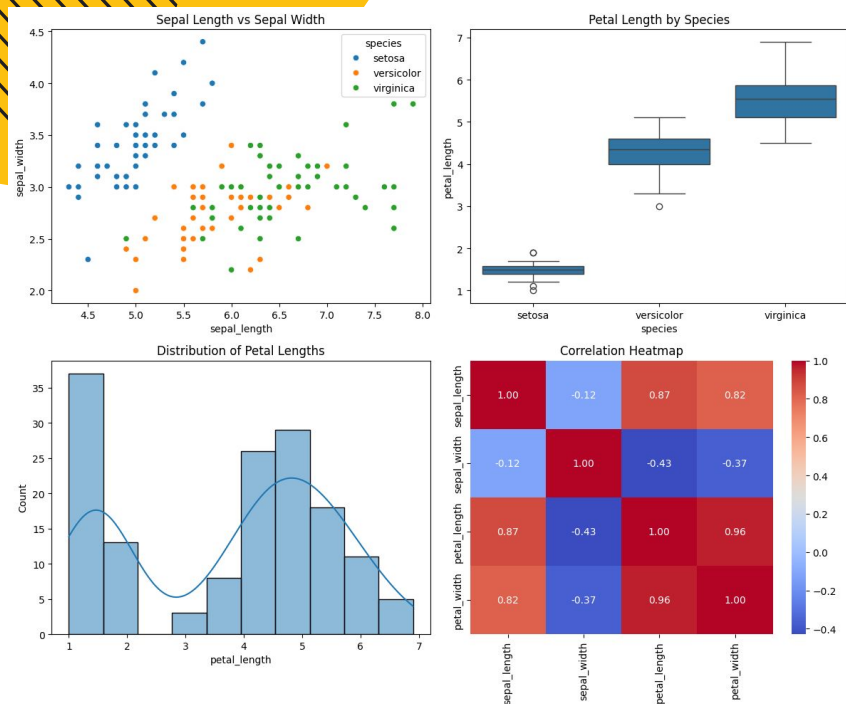
- Use subplots
- Show both the scatter plot and boxplot side by side
- Use a tight layout



Hint

Use `AXS`

Finale



- Present all the plots we've made today together
- Save the figure as jpg/png

**THANK
YOU !**

We hope to see you next week :)

