

# IT Workshop Assignment 2

The following data includes three species iris flower with 50 samples each as well as some properties about each flower.

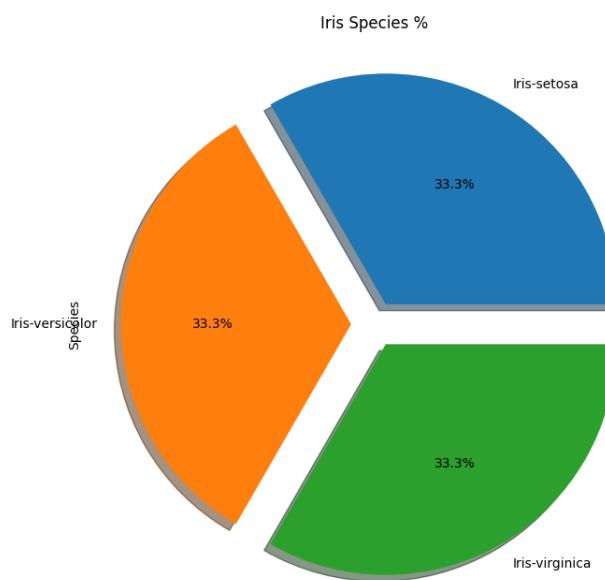
The columns in this dataset are:

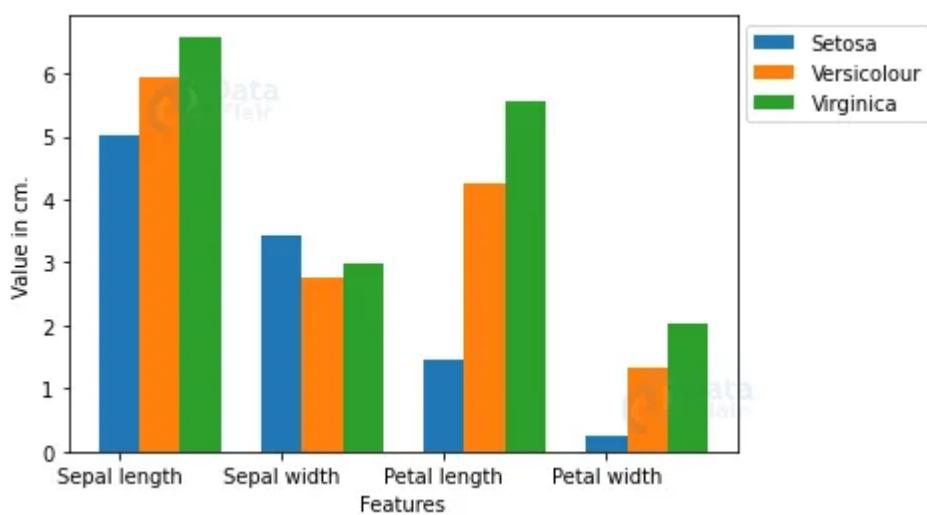
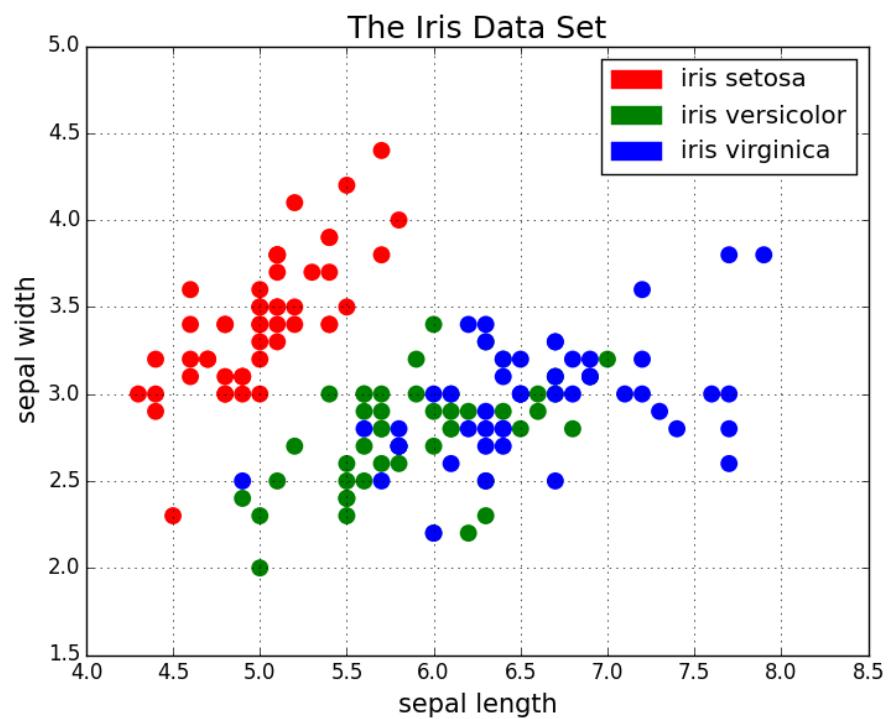
1. Sepal Length
2. Sepal Width
3. Petal Length
4. Petal Width
5. Species

Link to the data:

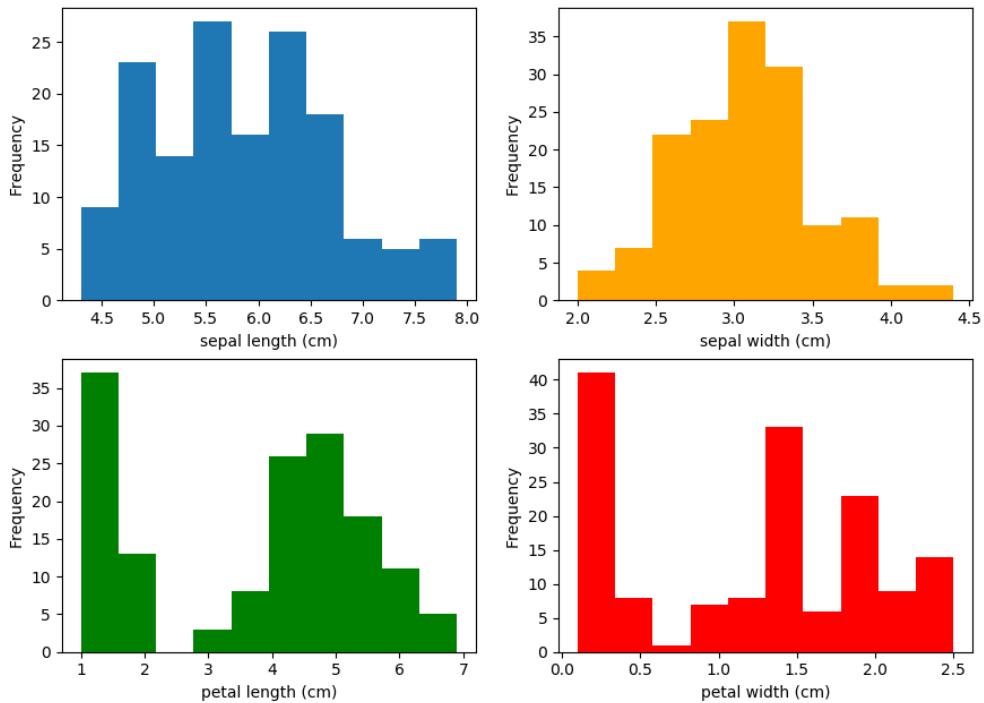
[https://github.com/rguktbcse/CS2702\\_ITWORKSHOP/blob/main/python%20class%20codes/iris.csv](https://github.com/rguktbcse/CS2702_ITWORKSHOP/blob/main/python%20class%20codes/iris.csv)

Using the Python libraries Pandas and Matplotlib prepare the following plots. Save the figures and prepare a latex document adding both plots and python code snippet.





Iris Histograms



Adding Python Code in latex with syntax highlight:

See example: [https://www.overleaf.com/learn/latex/Code\\_listing](https://www.overleaf.com/learn/latex/Code_listing)

Sample:

```
import numpy as np

def incmatrix(genl1,genl2):
    m = len(genl1)
    n = len(genl2)
    M = None #to become the incidence matrix
    VT = np.zeros((n*m,1), int) #dummy variable

    #compute the bitwise xor matrix
    M1 = bitxormatrix(genl1)
    M2 = np.triu(bitxormatrix(genl2),1)
```

END