**Iris species data classification using linear regression**

This project uses linear regression to classify iris species based on their sepal length, sepal width, petal length, and petal width.

**#Requirements**

\* Python 3.6 or above

\* Jupyter Notebook

\* pandas

\* numpy

\* matplotlib

**# Running the code in Notebook**

* Download the iris\_data\_classification.ipynb file.
* Open the Jupyter Notebook by typing jupyter notebook in the terminal or command prompt.
* Navigate to the file location in the Jupyter Notebook.
* Run each cell by clicking the Run button.
* The code will preprocess the data, train a linear regression model, and evaluate its performance.
* The results, including the mean squared error and cross-validation scores, will be displayed in the final cell.
* You can also plot the predicted versus actual values and the distribution of the residuals by running the plotting code.