Iris Flower Classification Using Logistic Regression

# 1. Introduction

This project uses the Iris dataset to classify flower species using Logistic Regression.

# 2. Dataset Overview

Features: Sepal Length, Sepal Width, Petal Length, Petal Width.  
Target: Iris Setosa, Versicolor, Virginica.

# 3. Data Visualization

Correlation heatmap is included below:

# 4. Model and Metrics

Model: Logistic Regression  
Train-Test Split: 80/20  
Performance: Accuracy, Precision, Recall, F1 Score.

# 5. Conclusion

The model performed well with high accuracy and F1 score, showing effective classification ability.