### **Task 5**

**Machine Learning**

Upload .py or Ipynb extension file on GitHub public repo “100DaysofBytewise" and share the link in the submission form by 24 June 2024.

1. **Implement a linear regression model to predict housing prices based on a given dataset.**

**Expected Output:**

* 1. **Load a dataset the Boston Housing dataset.**
  2. **Train a linear regression model.**
  3. **Print the model's coefficients and intercept.**
  4. **Predict housing prices on a test set and print the mean squared error.**
  5. **Visualize the regression line and data points.**

1. **Build a decision tree classifier to classify iris flower species.**

**Expected Output:**

* 1. **Load the Iris dataset.**
  2. **Train a decision tree classifier.**
  3. **Print the classification report and confusion matrix.**
  4. **Visualize the decision tree.**