

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:

- a. **Load a dataset the Boston Housing dataset.**
- b. **Train a linear regression model.**
- c. **Print the model's coefficients and intercept.**
- d. **Predict housing prices on a test set and print the mean squared error.**
- e. **Visualize the regression line and data points.**

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

Expected Output:

- a. **Load the Iris dataset.**
- b. **Train a decision tree classifier.**
- c. **Print the classification report and confusion matrix.**
- d. **Visualize the decision tree.**