AIML LAB EXTERNAL (2024 – 25)

SET – 6 (Random Forest)

1. Implement Random Forest on a classification dataset and evaluate accuracy.

2. Compare Random Forest with a single decision tree classifier using accuracy.

3. Use feature importance to identify the top predictors in the dataset.

4. Visualize the out-of-bag (OOB) error to evaluate the model.

5. Evaluate the Random Forest model using confusion matrix and F1-score.

DATASET URL: https://raw.githubusercontent.com/datasciencedojo/datasets/master/titanic.csv