## **Usama Tufail**

#### Fa21-bse-053

# **Report: (Question 3)**

## **Question 1:**

#### By using j48 classifier:

- Accuracy of j48 with default parameters: 40.27%
- Accuracy of j48 with Grid Search: 43.56%
- Accuracy of j48 with Random Search: 42.75%

#### By using Random Forest classifier:

- Accuracy of Random Forest classifier with default parameters: 45.67%
- Accuracy of Random Forest classifier with Grid Search: 50%
- Accuracy of Random Forest classifier with Random search: 48.77%

## **Question 2:**

#### By using decision tree regressor:

By using default parameters:

Mean Absolute Error: 184762.4059621478

By using grid search:

• Mean Absolute Error: 175514.39

By using random search:

Mean Absolute Error: 180449.2077