

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
- R-squared score: 34.16%

By using grid search:

- Mean Absolute Error: 175514.39
- R-squared score: 47.16%

By using random search:

- Mean Absolute Error: 180449.2077
- R-squared score: 45.39%

