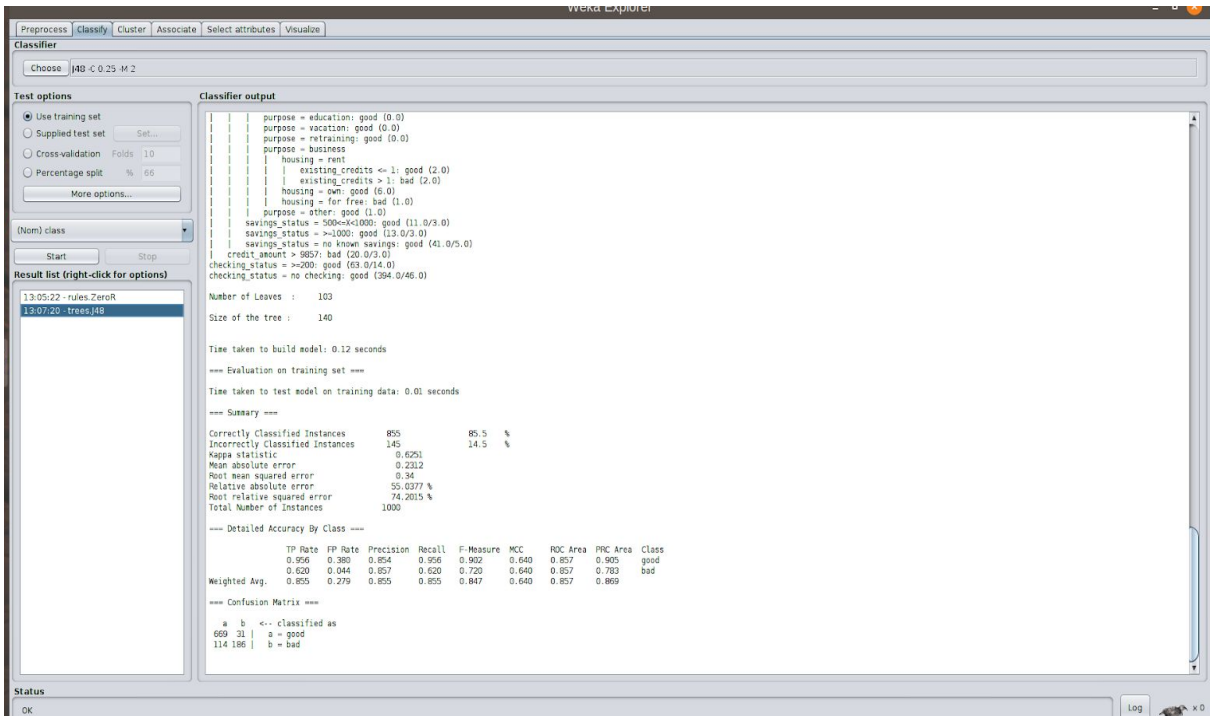
Exploring German credit dataset using Decision trees

1) The class is classified using decision trees using the following steps :
    a) Open weka and load the dataset
    b) Select class attribute and click on the classify button
    c) Select training set option and then J-48 classifier
    d) Click on the start button to get classifier output



2) Size of the tree : 140

    Number of leaves : 103

    Time taken to build the model : 0.01 sec.

    Default percentage split : 66%

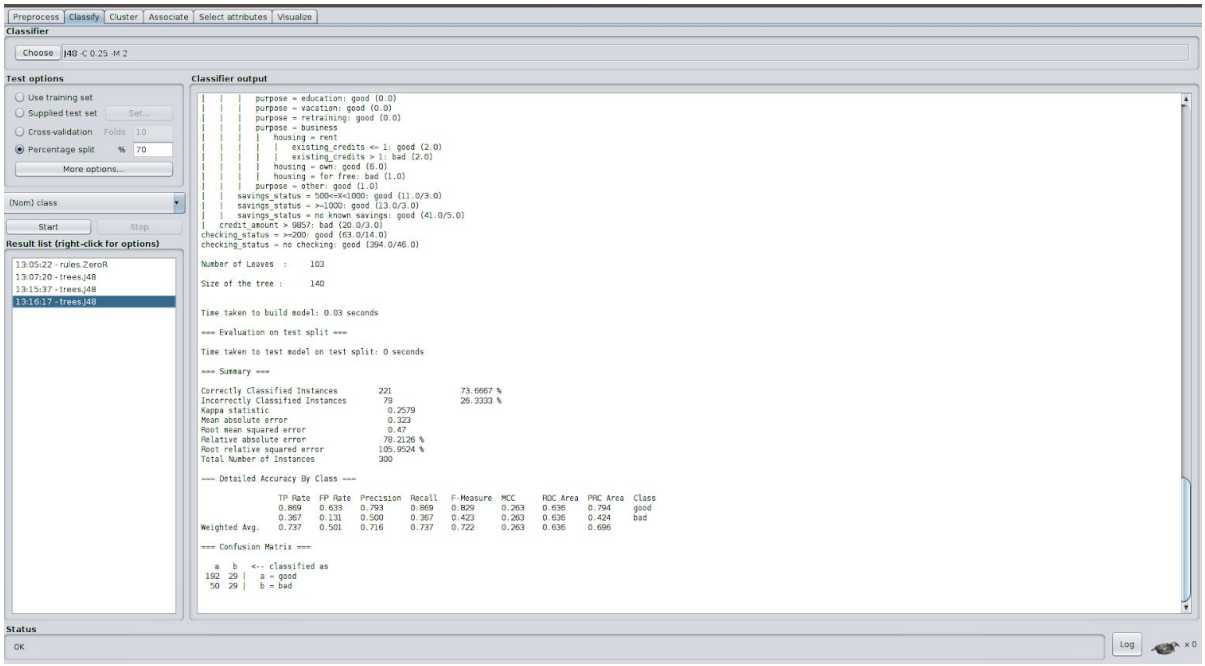
    Default cross validation folds : 10

    Accuracy : 72.6471%.

3) Percentage split : 70%

Default cross validation folds : 10

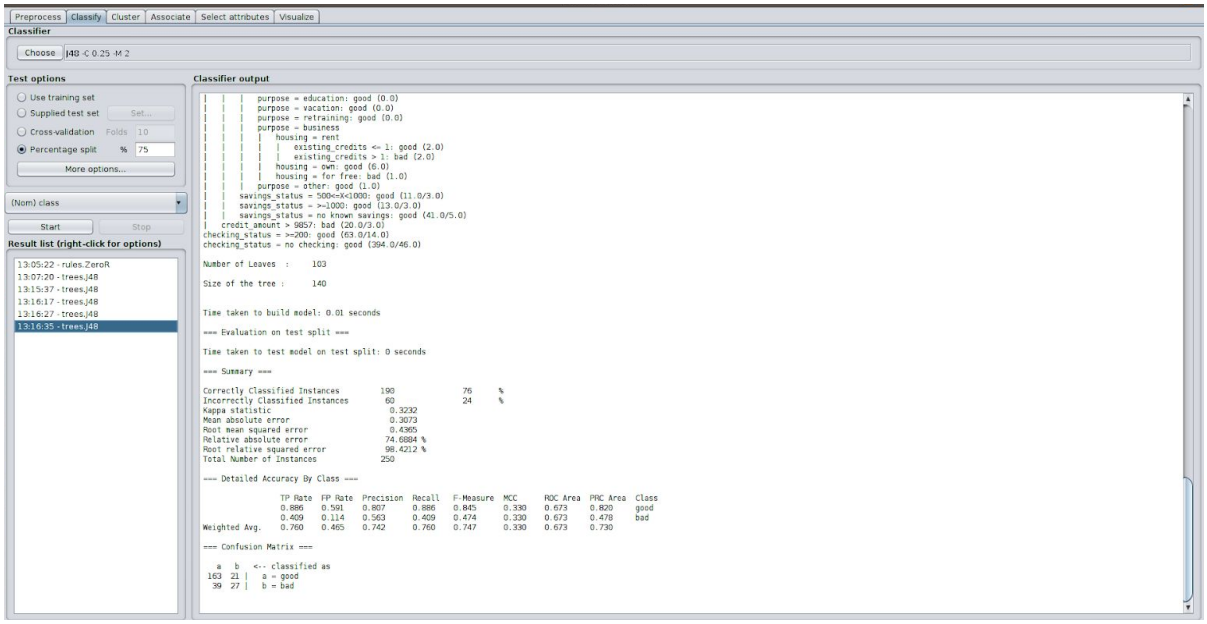
Accuracy : 73.66%



4) Percentage split : 75%

Default cross validation folds : 10

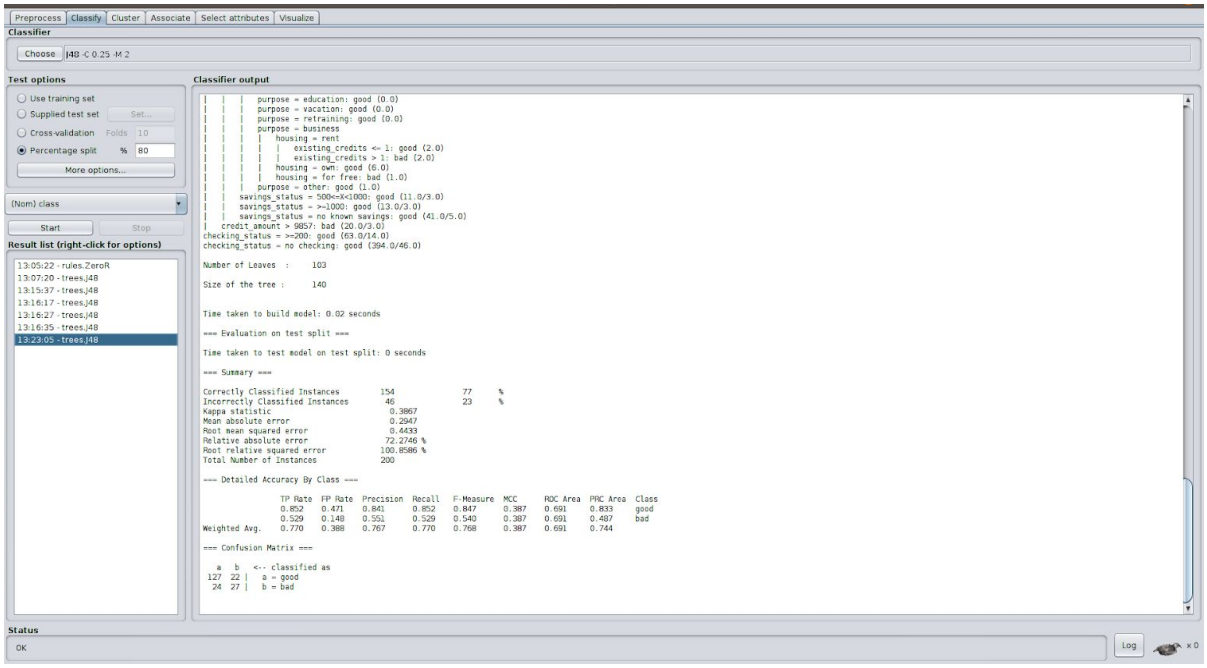
Accuracy : 76%



5) Percentage split : 80%

Default cross validation folds : 10

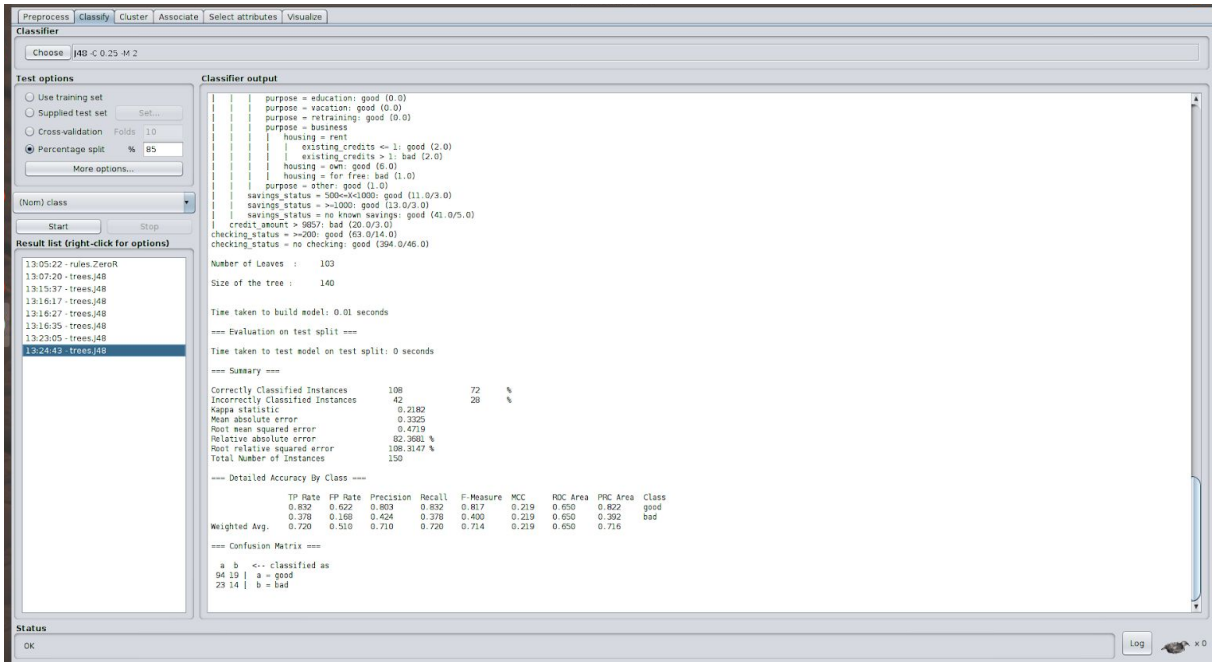
Accuracy : 77%



6) Percentage split : 85%

Default cross validation folds : 10

Accuracy : 72%



7) After trying out multiple combinations of percentage split and cross validation it is observed that the best accuracy i.e 77%.

8) Visualization of a decision tree -