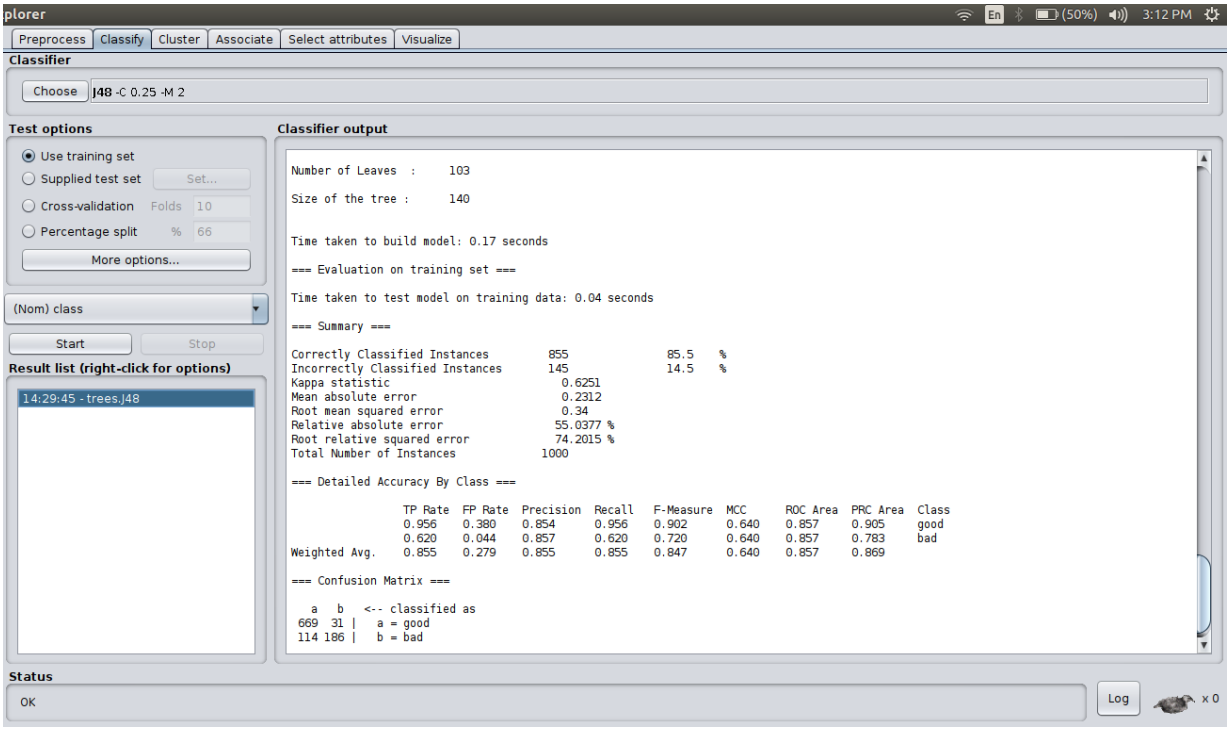
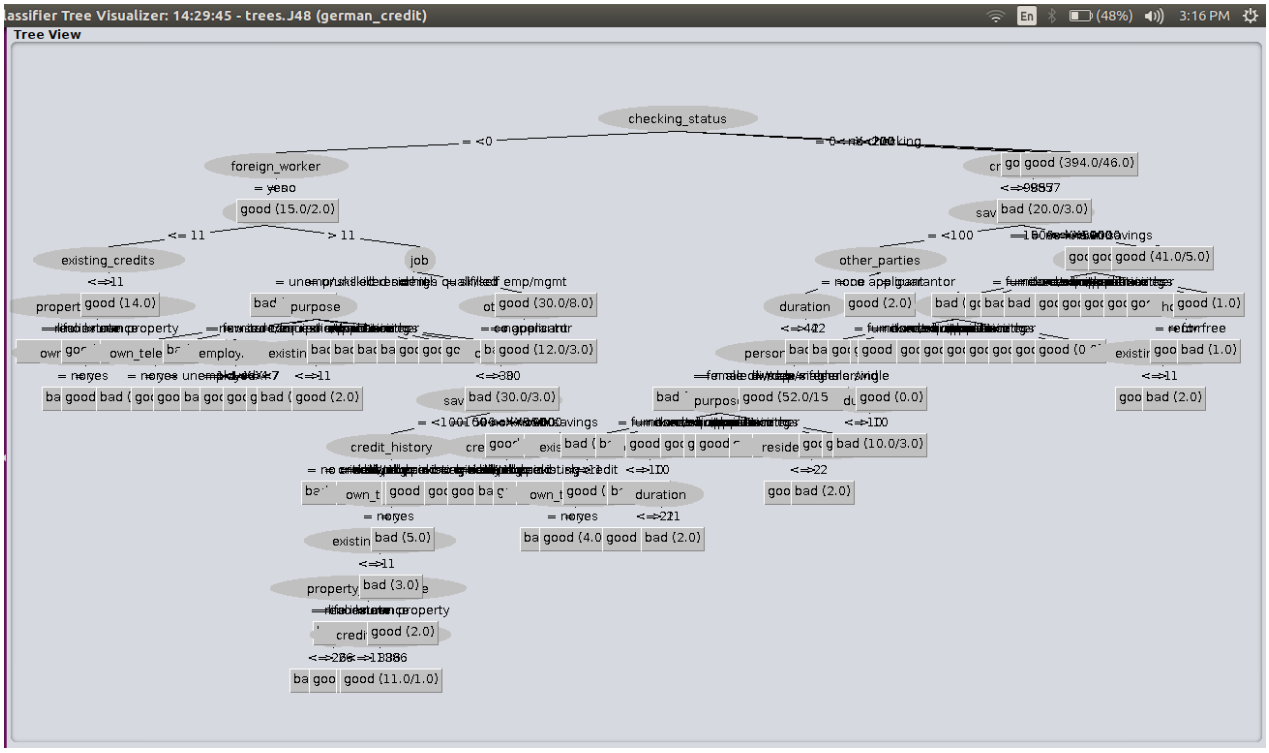
Steps to derive decision tree:
1.open weka
2.click on classify
3.click on use training data set
4.click on class and select 14:29:45 – trees.j48 and click start to get confusion matrix and number of leaves and size of the tree and time taken to build model details.

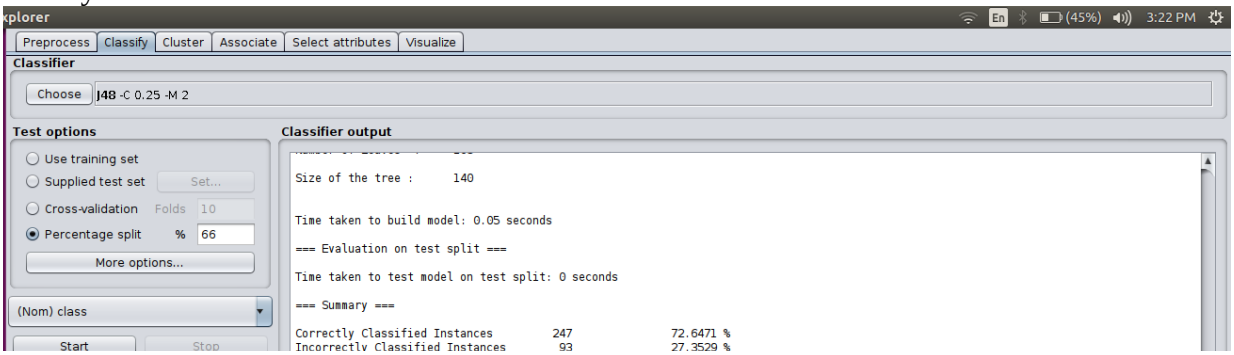


Time taken to build model is 0.17 seconds, and size of tree is 140 and number of leaves are 103.

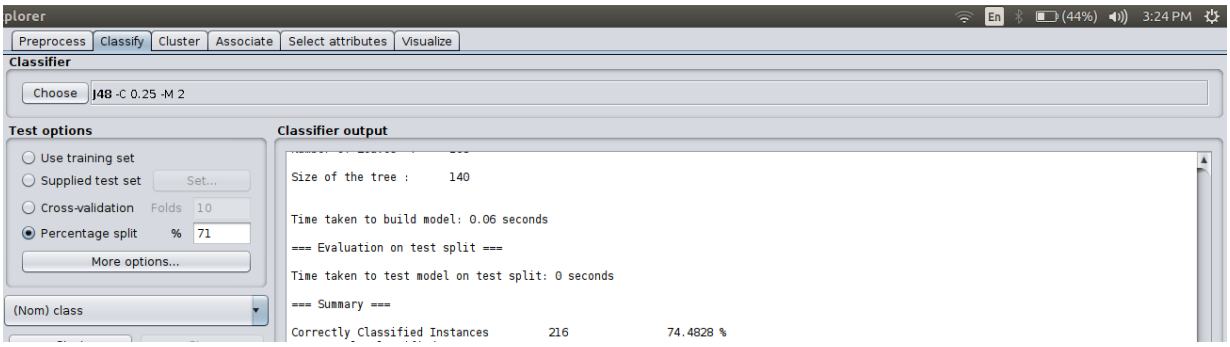
5.Right click on 14:29:45-trees.j48 and select visualize tree to get the tree.



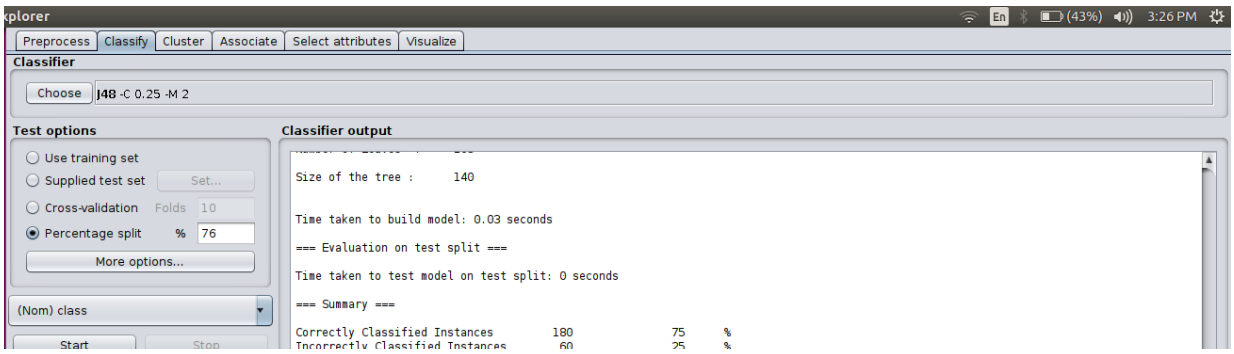
Percentage split: for 66%
Accuracy is 72.6471 %



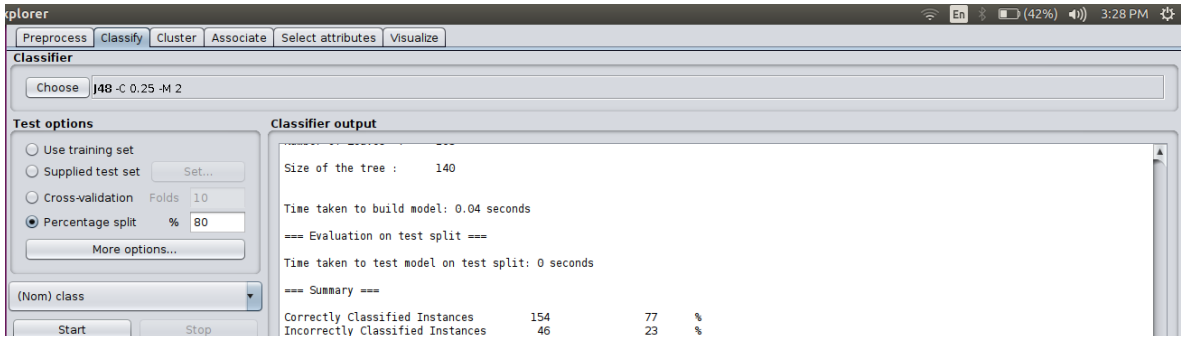
when percentage split is 71% , The Accuracy is : 74.4829%



When percentage split is 76%, The Accuracy is 75%

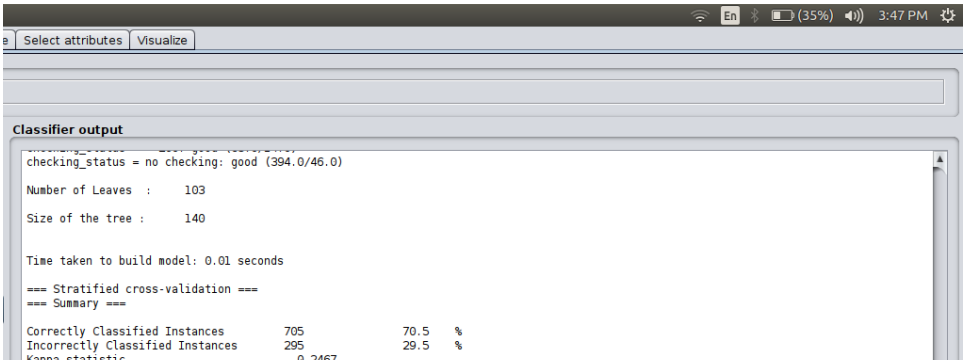


When Percentage split 80% , The Accuracy is 77%

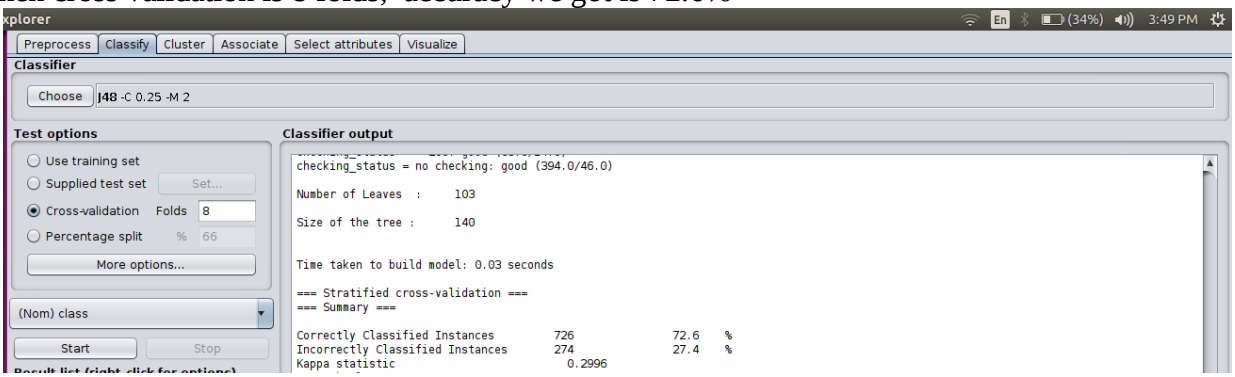


So,the maximum accuracy we got is 77% when percenrage split is 80%

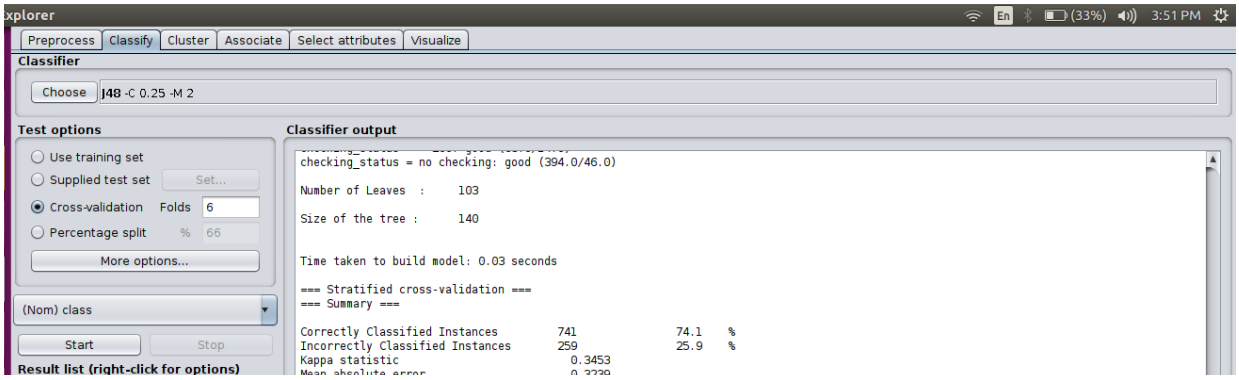
when cross validation is 10 folds , the accuracy we got is 70.5%



when cross validation is 8 folds, accuracy we got is 72.6%

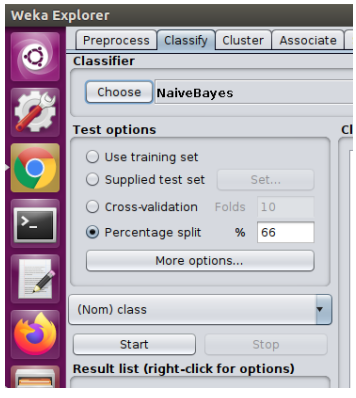


when cross validation is 6 folds , the accuracy we got is: 74.1%

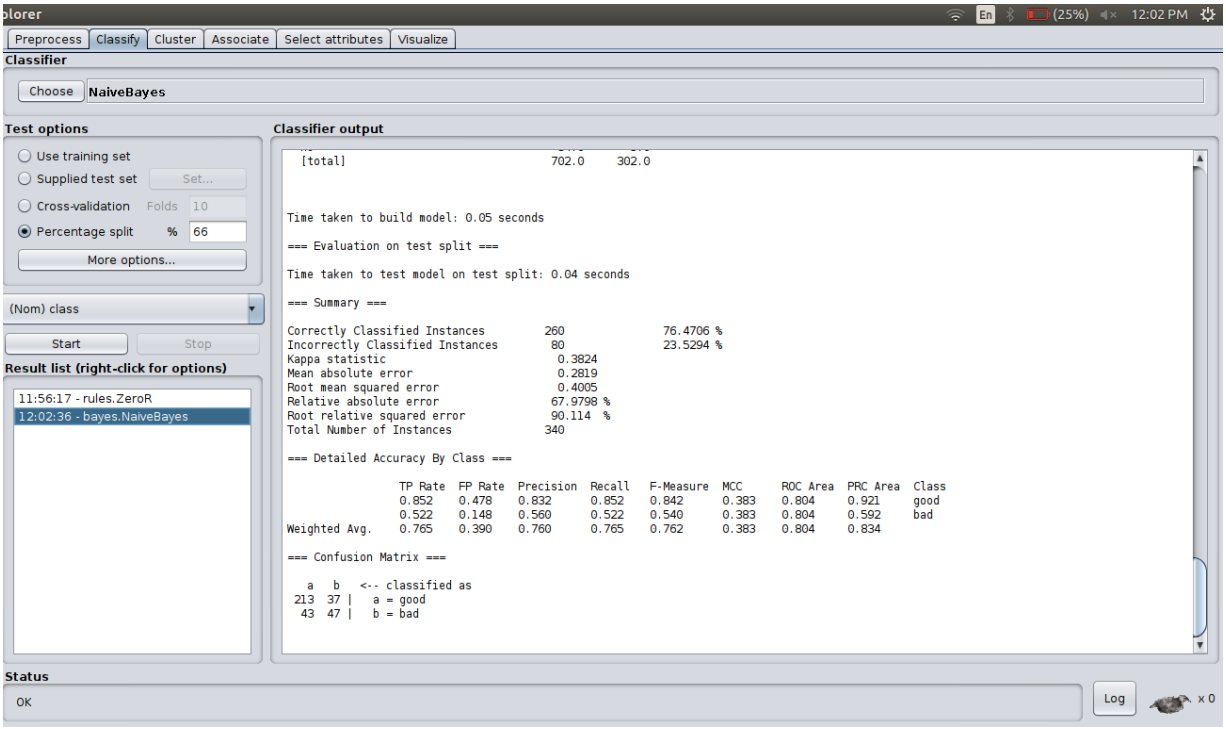


so the maximum accuracy we got is 74.1% when cross validation is 6 folds.

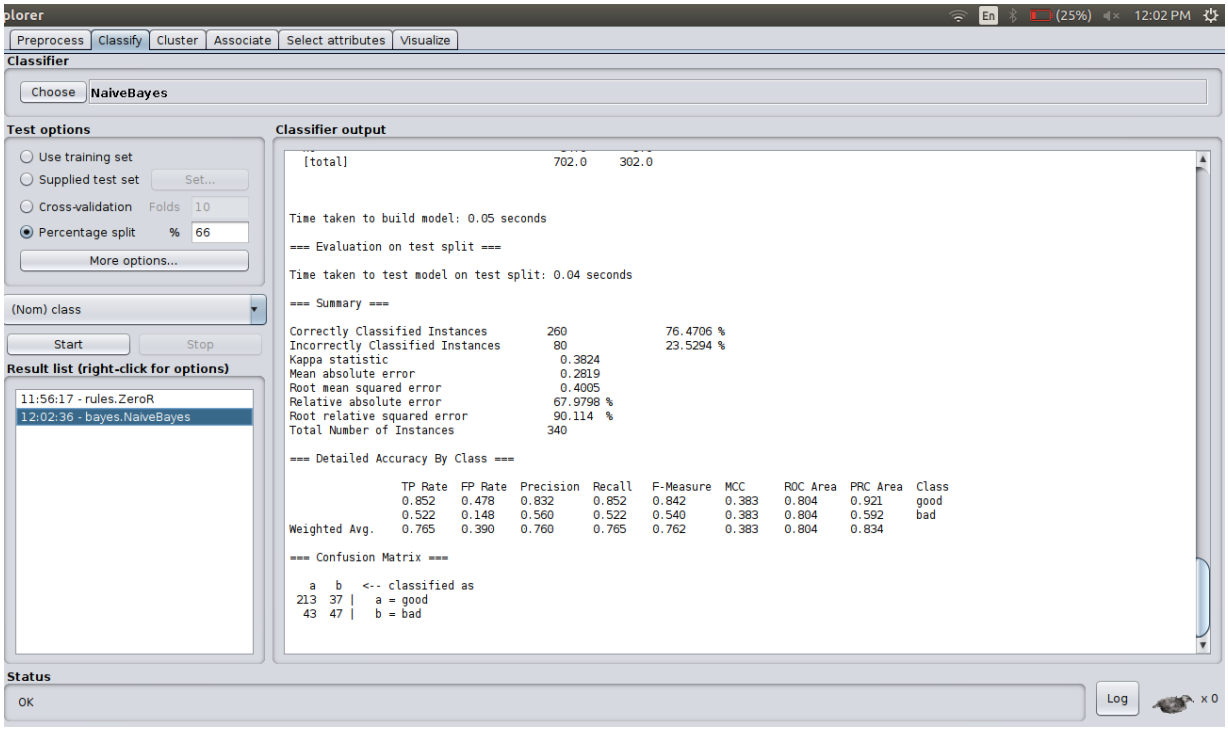
For Bayes:
steps:
1.open weka
2.click on explore
3.select g-creadit file
4.click on classify
5.click on choose and select bayes and choose Naive Bayes



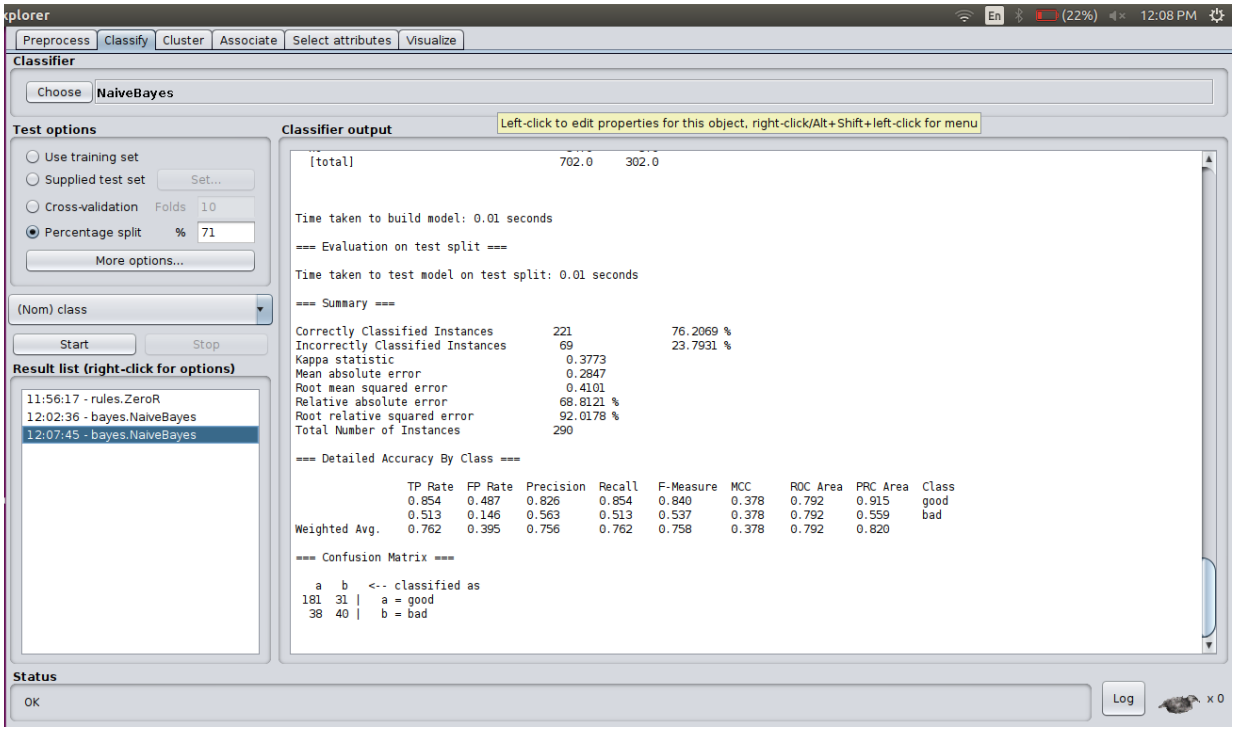
time taken to buid model is:0.05 seconds and confusion matrix is:



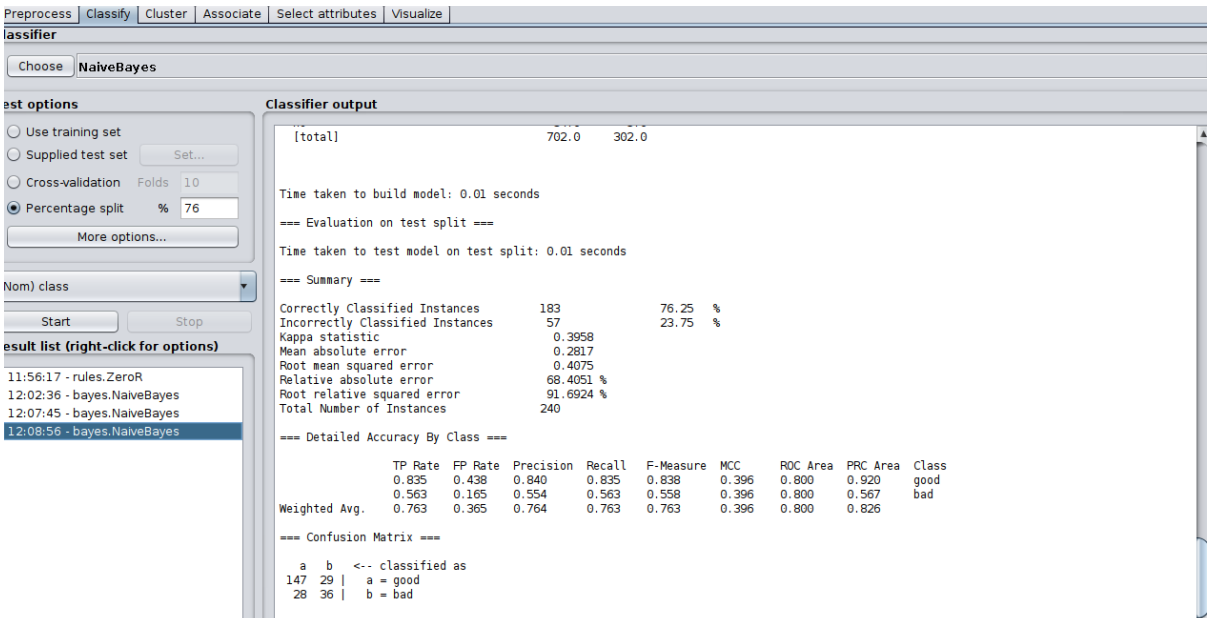
when percentage split is 66%,the accuracy we got is:76.4706%



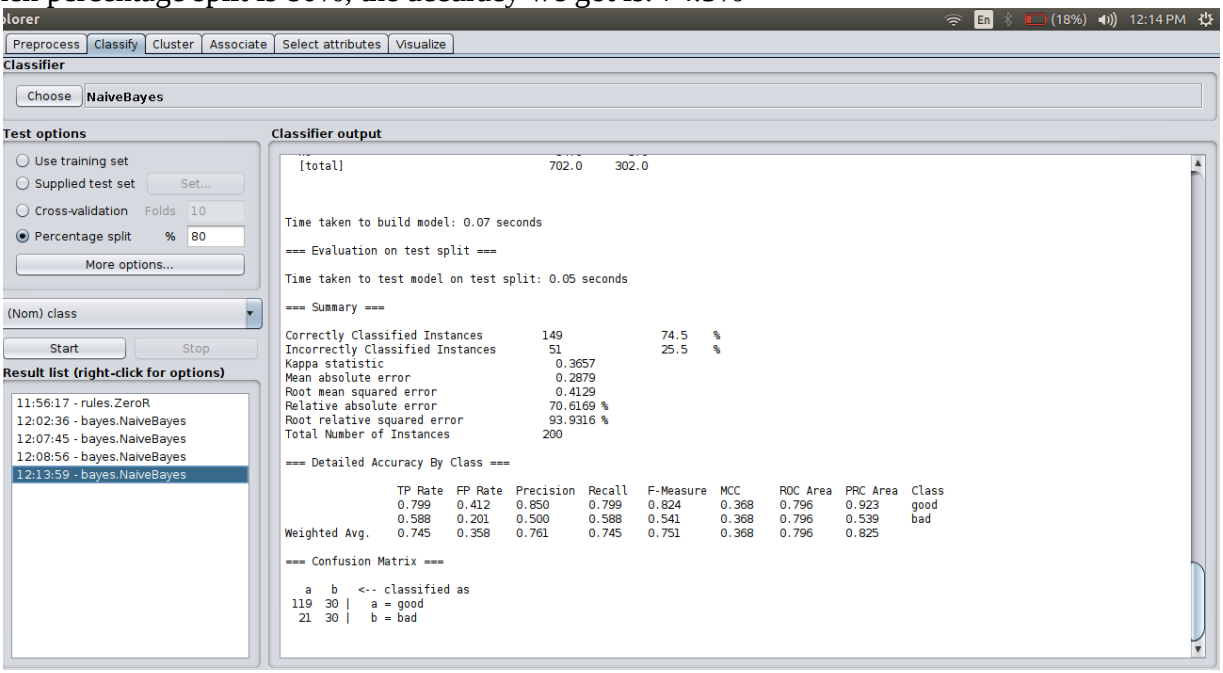
when percentage split is 71% the accuracy we got is: 76.2069%



when percentage split is 76% the accuracy we got is: 76.25%

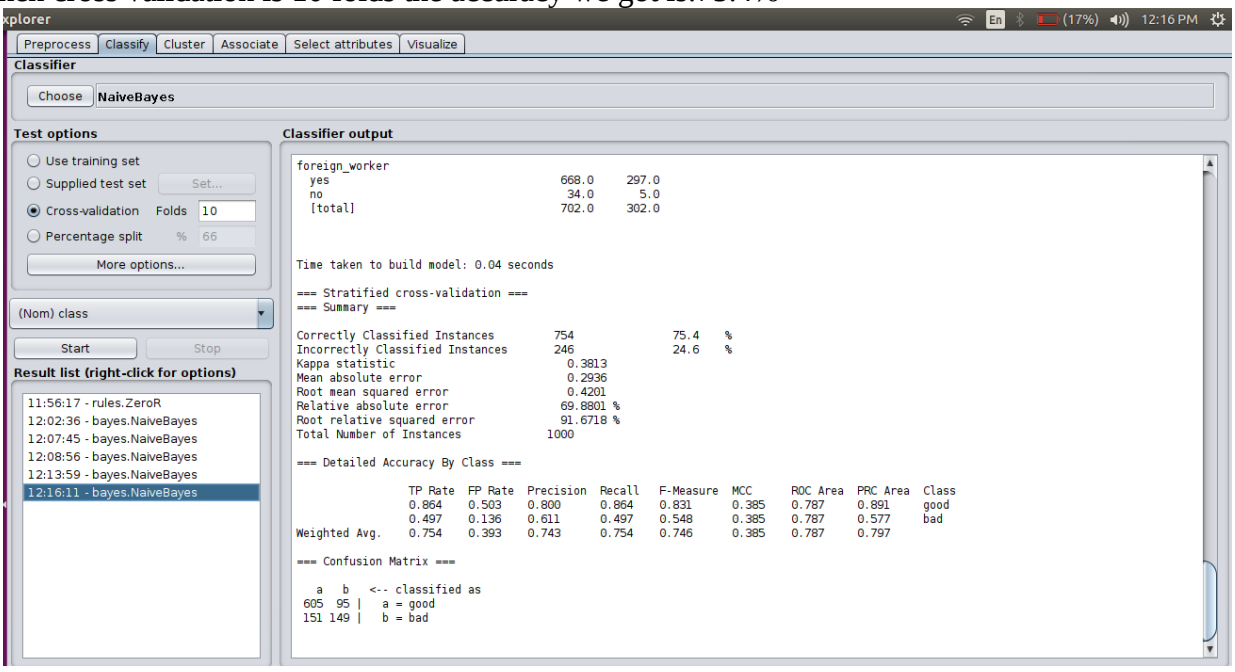


when percentage split is 80%, the accuracy we got is: 74.5%

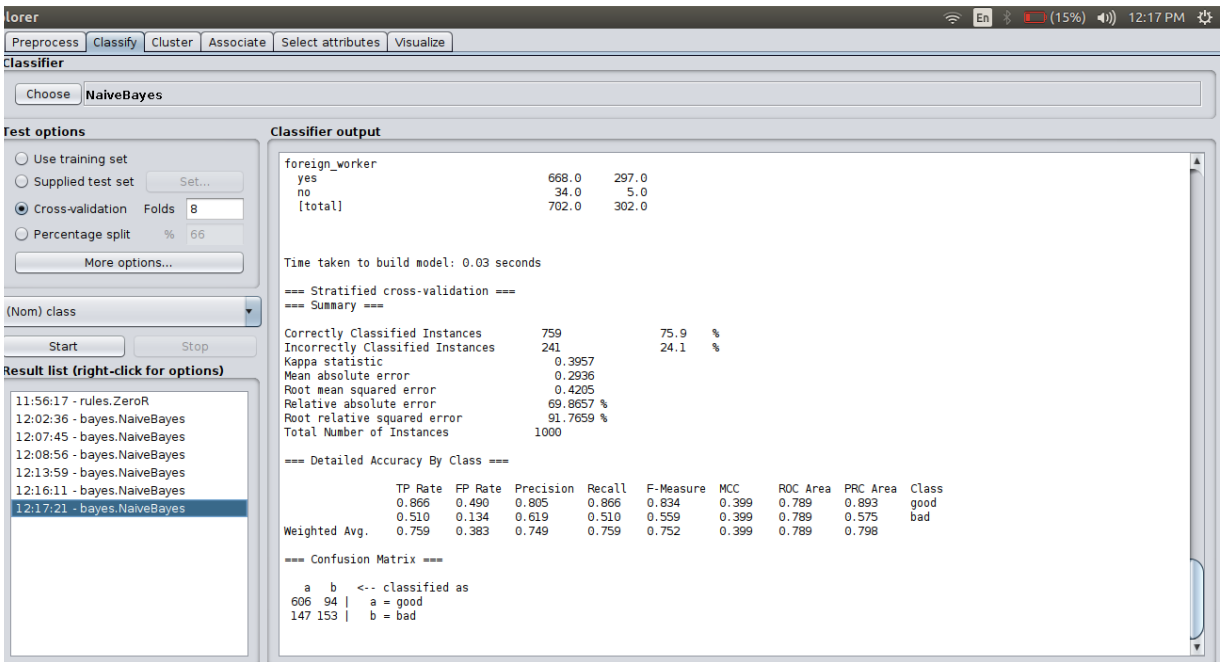


The maximum accuracy we got is 76.25% when percentage split is 76%

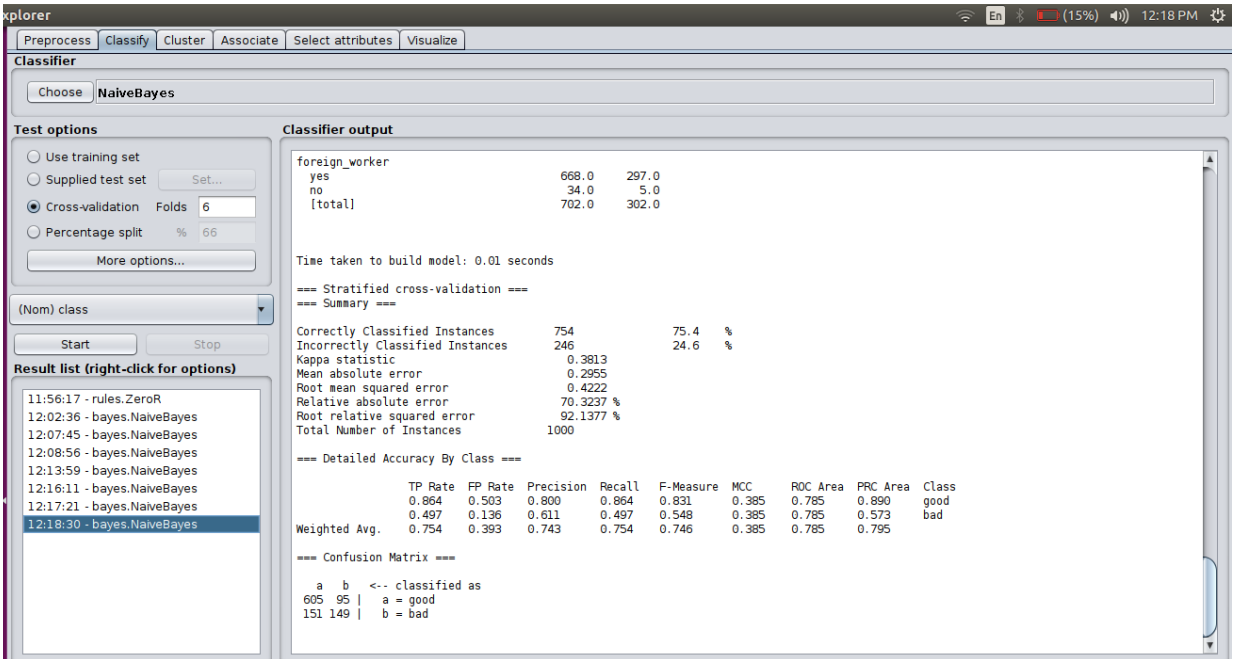
when cross validation is 10 folds the accuracy we got is:75.4%



when cross validation is 8 folds the accuracy we got is : 75.9%



when cross validation is 6 folds the accuracy we got is: 75.4%



So the maximum accuracy we got is 75.9% when cross validation is 8 folds.