

1. RANDOM FOREST CLASSIFICATION REPORT

Accuracy:

overall performance of purchased = 0.91

Recall:

correctly purchased classify =0.88

correctly not purchased classify =0.93

precision:

correct purchase and wrongly correct purchase =0.88

not correct purchase and wrongly not correct purchase =0.93

F1-Measure:

Purchased F1-score=0.88

Not purchased F1-score=0.93

Macro average:

Average performance of precision =0.90

Average performance of Recall =0.90

Average performance of F1-score =0.90

Weighted Average:

Proportion rate of precision= 0.91

Proportion rate of Recall= 0.91

Proportion rate of F1-score= 0.91

Support:

total count of non purchased =85

total count of purchased= 49

Total count of test set=79+6+6+43=134

2.DECISION TREE_CLASSIFICATION REPORT

Accuracy:

overall performance of purchased = 0.87

Recall:

correctly purchased classify =0.73

correctly not purchased classify =0.94

precision:

correct purchase and wrongly correct purchase =0.88

not correct purchase and wrongly not correct purchase =0.86

F1-Measure:

Purchased F1-score=0.80

Not purchased F1-score=0.90

Macro average:

Average performance of precision =0.87

Average performance of Recall =0.84

Average performance of F1-score =0.85

Weighted Average:

Proportion rate of precision= 0.87

Proportion rate of Recall= 0.87

Proportion rate of F1-score= 0.86

Support:

total count of non purchased =85

total count of purchased= 49

Total count of test set=80+5+13+36=134

3.SUPPORT VECTORE MACHINE

Accuracy:

overall performance of purchased = 0.63

Recall:

correctly purchased classify =0.00

correctly not purchased classify =1.00

precision:

correct purchase and wrongly correct purchase =0.00

not correct purchase and wrongly not correct purchase =0.63

F1-Measure:

Purchased F1-score=0.00

Not purchased F1-score=0.78

Macro average:

Average performance of precision =0.32

Average performance of Recall =0.50

Average performance of F1-score =0.39

Weighted Average:

Proportion rate of precision= 0.40

Proportion rate of Recall= 0.63

Proportion rate of F1-score= 0.49

Support:

total count of non purchased =85

total count of purchased= 49

Total count of test set=85+0+49+0=134

