CLASSIFIER

SVM DECISION TREE RANDOM FOREST

1.What is the overall performance of the model ?

Accuracy 0.78 0.87 0.90

2.what is the currectly performance of the model ?

(not purchased) Recall 0.96 0.89 0.92

(purchased) Recall 0.47 0.84 0.88

3.what is the total performance of the model ?

(not purchased) Precision 0.76 0.90 0.93

( purchased) precision 0.88 0.82 0.86

4.what is the average performance of purchased ?

(not purchased) F1 Measure 0.85 0.90 0.92

(purchased) F1 Measure 0.61 0.83 0.87

5.what is the average performance of precision?

(macro avg) precision 0.82 0.86 0.89

Recall 0.72 0.87 0.90

F1 Measure 0.73 0.86 0.90

6.what is the proportion rate of the precision?

(weighted avg) precision 0.81 0.87 0.90

Recall 0.78 0.87 0.90

F1 Measure 0.76 0.87 0.90

The Best model of the Classification=Random Forest