**Random Forest**

**Accuracy**

1. What is the percentage of correct classification of both (purchased & not purchased ) to the input of the test set?

2. Overall performance of the model? 0.89

**Recall**

1.What is the percentage of correct classification of (purchased) to the total input of (purchased) in the test set? 0.85

2.What is the percentage of correct classification of (not purchased) to the total input of (not purchased) in the test set? 0.91

**Precision**

1.What is the percentage of correct classification of(not purchased) to sum of correctly classified as (not purchased) and wrongly classified as (not purchased) in the test set? 0.92

2.What is the percentage of correct classification of(purchased) to sum of correctly classified as (purchased) and wrongly classified as (purchased) in the test set? 0.83

**F1 score**

1.What is the overall performance of not purchased? 0.92

2.What is the overall performance of purchased? 0.84

**Macro average**

1.What is the average of the performance of precision(correctly and wrongly classified)? 0.88

3.What is the average of the performance of recall (correctly classified)? 0.88

2.What is the average of the performance of F1-Measure(overall performance)? 0.88

**Weighted average**

1.What is the sum of product of proportion rate(weight) of each class precision(correctly and wrongly classified)? 0.89

2.What is the sum of product of proportion rate(weight) of each class recall (correctly classified)? 0.89

3.What is the sum of product of proportion rate(weight) of each class F1-Measure(overall performance)? 0.89