# **ML classification – Decision Tree**

**1.What is the overall performance of the model? (Accuracy)**

0.91

**2.What is the percentage of correctly predicted positive observations to the total predicted positive observations of Unpurchased? (Precision)**

0.96

**2a. What is the percentage of correctly predicted positive observations to the total predicted positive observations of purchased? (Precision)**

0.83

**3.What is the percentage of correctly predicted positive observations to all observations in actual class of unpurchased? (Recall)**

0.90

**3a. What is the percentage of correctly predicted positive observations to all observations in actual class of purchased? (Recall)**

0.93

**4.What is the overall performance of unpurchased? (F1-Score)**

0.93

**4a. What is the overall performance of purchased? (F1 score)**

0.87

**5. What is the average performance of Precision, Recall and F1score? (Macro Average)**

Precision=0.89

Recall=0.91

F1 score=0.90

**6.What is the sum of product of product of proportion of precision, recall and f1 score? (Weighed\_average)**

Precision=0.91

Recall= 0.91

F1-score=0.9