**Machine Learning – Classification**

**1.Random Forest Classification**

**Confusion Matrix:**

**78 7**

**6 43**

***Recall:***

***Purchased:***

**78 0.92**

**78+6**

***Not Purchased:***

**43 0.88**

**43+6**

***Precision:***

***Purchased:***

**78 0.93**

**78+6**

***Not Purchased:***

**43 0.86**

**43+7**

***F-1 Measure:***

***Purchased:***

**0.92 \* 0.93**

**2 \* 0.92**

**0.92 + 0.93**

***Not Purchased:***

**0.88 \* 0.86**

**2 \* 0.87**

**0.88 + 0.86**

***Macro Average:***

***Precision:***

**0.93+0.86**

**0.89**

**2**

***Recall:***

**0.92+0.88**

**0.90**

**2**

***F-1 Measure:***

**0.92+0.87**

**0.90**

**2**

***Weighted Average:***

***Precision:***

***84 49***

***0.93 \* + 0.86 \* 0.90***

***134 134***

***Recall:***

***84 50***

***0.92 \* + 0.88 \* 0.90***

***134 134***

***F1 – Measure:***

***84 50***

***0.92 \* + 0.87 \* 0.90***

***134 134***

***Accuracy:***

***78 + 43 0.90***

***78 + 43 + 6 + 7***