

## **Decision Tree classification**

- 1.What is overall performance of Decision Tree- 0.87(87%)
- 2.What kind of problem statement- Classification problem statement
- 3.What is overall performance of your Model--Accuracy is overall percentage 0.87(87%)
- 4.What is the Recall of 0(0 means 'not purchased' and 1 means 'purchased')-- 0.89 (89%)
- 5.What is the correct performance of purchased? --0.84(84%)
- 6.Purchased-Correctly classified as well as wrongly classified-->(Model telling about whole value including wrongly classified)--0.82(82%)
- 7.What is the f1-score of 0- 0.90(90%)
- 8.What is the f1-score of 1- 0.83(83%)
- 9.MacroAvg value for Precision--0.86(86%)
- 10.MacroAvg value for Recall--0.87(87%)
- 11.MacroAvg value for F1-Score--0.86(86%)
- 12.Weighted average value for Precision--0.87(87%)
- 13.Weighted average value for Recall--0.87(87%)
- 14.Weighted average value for F1-Score--0.87(87%)
- 15.Support value(Testdata count) -134
- 16.It's Balanced dataset/Imbalanced dataset--Balanced dataset

## **Random Forest classification**

- 1.What is overall performance of Random Forest-(0.90)90%
- 2.What kind of problem statement- Classification problem statement
- 3.What is overall performance of your Model--Accuracy is overall percentage (0.90)90%
- 4.What is the Recall of 0 value(0 means 'not purchased' and 1 means 'purchased')-- 0.92 (92%)
- 5.What is the correct performance of purchased? --0.86(86%)

6.Purchased-Correctly classified as well as wrongly classified-->(Model telling about whole value including wrongly classified)--0.82(82%)

7.What is the f1-score of 0- 0.90(90%)

8.What is the f1-score of 1- 0.83(83%)

9.MacroAvg value for Precision--0.86(86%)

10.MacroAvg value for Recall--0.87(87%)

11.MacroAvg value for F1-Score--0.86(86%)

12.Weighted average value for Precision--0.87(87%)

13.Weighted average value for Recall--0.87(87%)

14.Weighted average value for F1-Score--0.87(87%)

15.Support value(Testdata count) -134

16.It's Balanced dataset/Imbalanced dataset--Balanced dataset

## **SVM Kernal classification**

1.What is overall performance of DecisionTree- 0.68(68%)

2.What kind of problem statement- Classification problem statement

3.What is overall performance of your Model--Accuracy is overall percentage 0.68(68%)

4.What is the Recall of 0(0 means 'not purchased' and 1 means 'purchased')-- 0.99 (99%)

5.What is the correct performance of purchased? --0.14(14%)

6.Purchased-Correctly classified as well as wrongly classified-->(Model telling about whole value including wrongly classified)--0.88(88%)

7.What is the f1-score of 0- 0.80(80%)

8.What is the f1-score of 1- 0.25(25%)

9.MacroAvg value for Precision--0.77(77%)

10.MacroAvg value for Recall--0.57(57%)

11.MacroAvg value for F1-Score--0.52(52%)

12.Weighted average value for Precision--0.74(74%)

13. Weighted average value for Recall--0.68(68%)

14. Weighted average value for F1-Score--0.59(59%)

15. Support value(Testdata count) -134

16. It's Balanced dataset/Imbalanced dataset--Imbalanced dataset