

Classification Confusion Matrix Report

RF:

Dataset: Social_Network_Ads.csv

Function: RandomForestClassifier

Classification Report:

	precision	recall	f1-score	support
0	0.94	0.92	0.93	79
1	0.86	0.88	0.87	41
accuracy			0.91	120
macro avg	0.90	0.90	0.90	120
weighted avg	0.91	0.91	0.91	120

1. Over all accuracy or Performance of the model - 0.91
2. Current Purchased classification Percentage - 0.88
3. Current Non Purchased Classification Percentage - 0.92
4. Over all Purchased Classification Percentage- 0.86
5. Over all Non Purchased Classification Percentage- 0.94
6. Average Over all Classification Percentage- 0.90
7. Average Over all Current Classification Percentage- 0.90

DT:

Dataset: Social_Network_Ads.csv

Function: DecisionTreeClassifier

Classification Report:

	precision	recall	f1-score	support
0	0.92	0.91	0.92	79
1	0.83	0.85	0.84	41
accuracy			0.89	120
macro avg	0.88	0.88	0.88	120
weighted avg	0.89	0.89	0.89	120

1. Over all accuracy or Performance of the model - 0.89
2. Current Purchased classification Percentage - 0.85
3. Current Non Purchased Classification Percentage - 0.91
4. Over all Purchased Classification Percentage- 0.83

5. Over all Non Purchased Classification Percentage- 0.92
6. Average Over all Classification Percentage- 0.88
7. Average Over all Current Classification Percentage- 0.88

SVM:

Dataset: Social_Network_Ads.csv

Function: SVC

Classification Report:

	precision	recall	f1-score	support
0	0.70	0.99	0.82	79
1	0.89	0.20	0.32	41
accuracy			0.72	120
macro avg	0.80	0.59	0.57	120
weighted avg	0.77	0.72	0.65	120

1. Over all accuracy or Performance of the model - 0.72
2. Current Purchased classification Percentage - 0.20
3. Current Non Purchased Classification Percentage - 0.99
4. Over all Purchased Classification Percentage- 0.89
5. Over all Non Purchased Classification Percentage- 0.70
6. Average Over all Classification Percentage- 0.80
7. Average Over all Current Classification Percentage- 0.59