

1.SVC-support vector classification

Purchase	precision	recall	f1-score	support
0	0.77	0.97	0.86	79
1	0.90	0.44	0.59	41

accuracy		0.79		120
macro avg	0.83	0.71	0.73	120
weighted avg	0.81	0.79	0.77	120

- what is the accuracy or overall correct predictions out of all predictions?
Ans: 0.79
- how many predicted positive(purchased) is correct?0.90
- what is the value for recall or all purchased cases?0.44
- what is f1 score or harmonic mean or balanced average of Precision and Recall for purchased cases?0.59
- what is the number of test sample for not purchased case?79
- what is the number of test sample for “purchased” case?41
- Total number of test samples:120

2.Decision Tree Classification

Purchased	precision	recall	f1-score	support
0	0.90	0.89	0.90	85
1	0.82	0.84	0.83	49

accuracy		0.87		134
macro avg	0.86	0.87	0.86	134
weighted avg	0.87	0.87	0.87	134

- what is the accuracy or overall correct predictions out of all predictions?
Ans: 87%
- how many predicted correctly who purchased (precision)?82%
- How much model predicted correctly someone did not purchase?90%

- what is the value for recall or all people who purchased ?84%
- what is f1 score or harmonic mean or balanced average of Precision and Recall for purchased cases?83%
- what is the number of test sample for not purchased case?85
- what is the number of test sample for “purchased” case?49
- Total number of test samples:134

3.RandomForestClassification

Purchased	precision	recall	f1-score	support
0	0.92	0.93	0.92	84
1	0.88	0.86	0.87	50

accuracy	0.90			134
macro avg	0.90	0.89	0.90	134
weighted avg	0.90	0.90	0.90	134

- what is the accuracy or overall correct predictions out of all predictions?
Ans: 90%
- how many predicted correctly who purchased (precision)?88%
- How much model predicted correctly someone who did not purchase?92%
- what is the value for recall or all people who purchased ?86%
- what is f1 score or harmonic mean or balanced average of Precision and Recall for purchased cases?87%
- what is the number of test sample for not purchased case?84
- what is the number of test sample for “purchased” case?50
- Total number of test samples:134