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

	precision	recall	f1-score	support
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 purchased cases is correct? or what is the percentage of correct classification of purchase to the sum of correctly classified as purchased and wrongly classified as purchased in test set? Ans:90%
- what is the percentage of correct classification of purchased to the total input of purchased in the test set?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

	precision	recall	f1-score	support
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 purchased cases is correct? or what is the percentage of correct classification of purchase to the sum of correctly classified as purchased and wrongly classified as purchased in test set?82%
- How much model predicted correctly for someone who did not purchase?90%
- what is the percentage of correct classification of purchased to the total input of purchased in the test set?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 purchased cases is correct? or what is the percentage of correct classification of purchase to the sum of correctly classified as purchased and wrongly classified as purchased in test set?88%
- How much model predicted correctly someone who did not purchase?92%
- what is the percentage of correct classification of purchased to the total input of purchased in the test set?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