

SVM Classification

1. What is the overall percentage of **accuracy** for the Random Forest model?

Answer → 0.68

2. What is the percentage of correct classification for "not purchased" instances compared to the total number of "**not purchased**" inputs in the test set?

Answer → 0.99

3. What is the percentage of correct classification for "purchased" instances compared to the total number of "**purchased**" inputs in the test set?

Answer → 0.14

4. What is the percentage of correct classification for "**not purchased**" instances compared to the sum of correctly classified "not purchased" and incorrectly classified "not purchased" instances in the test set?

Answer → 0.67

5. What is the percentage of correct classification for "**purchased**" instances compared to the sum of correctly classified "purchased" and incorrectly classified "purchased" instances in the test set?

Answer → 0.88

6. What is the overall performance of the "**not purchased**" classification?

Answer → 0.80

7. What is the overall performance of the "**purchased**" classification?

Answer → 0.25

8. What is the average performance of **precision** for correctly and incorrectly classified instances?

Answer → 0.77

9. What is the average performance of **recall** for correctly and incorrectly classified instances?

Answer → 0.57

10. What is the average performance of **F1 measure** for correctly and incorrectly classified instances?

Answer → 0.52

11. What is the sum of the product of the precision rate (weight) of each class?

Answer → 0.74

12. What is the sum of the product of the recall rate (weight) of each class?

Answer → 0.68

13. What is the sum of the proportion rate (weight) of each class?

Answer → 0.59

14. What is the total number of test data instances classified as "not purchased"?

Answer → 85

15. What is the total number of test data instances classified as "purchased"?

Answer → 49

16. What is the total performance of the model on the entire test data (overall performance)?

Answer → 134

17. What is the total average performance of the model on the test data?

Answer → 134

18. What is the total proportion rate for all instances in the test data?

Answer → 134

print(clf_report)					
	precision	recall	f1-score	support	
0	0.67	0.99	0.80	85	
1	0.88	0.14	0.25	49	
accuracy			0.68	134	
macro avg	0.77	0.57	0.52	134	
weighted avg	0.74	0.68	0.59	134	