

DECISION TREE

Questions:

1. How well does the model perform overall?

Accuracy-0.91

2. When the model predicted a positive outcome, how often was it correct?

Precision- 0.96, 0.83

3. When the class was actually TRUE, how often did the classifier get it right?

Recall-0.90, 0.93

4. What percentage of the model's positive predictions was correct?

Precision-95%,82%

5. Of all the actual positive cases, how many did the model correctly identify as purchased? **Recall-0.92**

6. How well a model balances precision and recall?

F1-Score-0.92, 0.87

7. What is the classifier's performance across all classes by averaging the performance metrics?

Macro Average- 'precision': 0.89, 'recall': 0.91, 'f1-score': 0.90, 'support': 120.0

8. How well does the classifier perform in all classes when calculating the performance metrics?

Weighted Average- 'precision': 0.91, 'recall': 0.91, 'f1-score': 0.91, 'support': 120.0