**Decision Tree Classification Assignment**

1. What is the overall performance (correct classification of both purchased & not purchased) of the model?

Accuracy = 0.87

1. What is the correct classification of not purchased in the model?

Recall Value of Not Purchased = 0.89

1. What is the correct classification of purchased in the model?

Recall Value of Purchased = 0.84

1. What is the correct classification of not purchased to the sum of correctly classified as not purchased and wrongly classified as purchased in the model?

Precision Value of Not Purchased = 0.90

1. What is the correct classification of purchased to the sum of correctly classified as purchased and wrongly classified as not purchased in the model?

Precision Value of Not Purchased = 0.82

1. What is the overall performance of not purchased in the model?

F1-Score Value of Not Purchased = 0.90

1. What is the overall performance of purchased in the model?

F1-Score Value of Not Purchased = 0.83

1. What is the average performance of precision (correctly and wrongly classified) in the model?

Macro Average Value of Precision = 0.86

1. What is the average performance of recall (correctly classified) in the model?

Macro Average Value of Recall = 0.87

1. What is the average performance of f1- score (overall performance) in the model?

Macro Average Value of F1-Score = 0.86

1. What is the sum of product (precision) of proportion rate of each class in the model?

Weighted Average Value of Precision = 0.87

1. What is the sum of product (recall) of proportion rate of each class in the model?

Weighted Average Value of Recall = 0.87

1. What is the sum of product (f1- score) of proportion rate of each class in the model?

Weighted Average Value of F1-Score = 0.87