Classification Assignment

Problem statement

1. Stage-1 : Machine Learning
2. Stage-2 : Classification
3. Stage-3 : Random forest classifier

Dataset:-
   399 rows × 25 columns
   Pd.get_dummies method is used to convert string data into nominal data

Decision tree:-
   Accuracy:- 0.92
   Roc:- 0.9279053084648493

SVM:-
   Accuracy:- 0.99

Random Forest
   Accuracy:- 0.99

Final Model:-

Random Forest:-

"The Random Forest Classifier was selected due to its superior performance, demonstrated by high accuracy and a strong ROC-AUC score."