Project Development Phase
Model Performance Test

Date	17 February 2026
Team ID	LTVIP2026TMIDS57934
Project Name	Online Payments Fraud Detection using Machine Learning
Maximum Marks	4 Marks

Model Performance Testing:

S.No.	Parameter	Values
1.	Models Used	Random Forest Extra Trees Classifier XGBoost Support Vector Classifier Decision Tree
2.	Accuracy	Training Accuracy - Validation Accuracy -

```
def compareModel():
    print("train accuracy for rfc:", accuracy_score(y_train_predict,y_train))
    print("test accuracy for rfc:", accuracy_score(y_test_predict,y_test))
    print("train accuracy for dtc:", accuracy_score(y_train_predict2,y_train))
    print("test accuracy for dtc:", accuracy_score(y_test_predict2,y_test))
    print("train accuracy for etc:", accuracy_score(y_train_predict3,y_train))
    print("test accuracy for etc:", accuracy_score(y_test_predict3,y_test))
    print("train accuracy for svc:", accuracy_score(y_train_predict4,y_train))
    print("test accuracy for svc:", accuracy_score(y_test_predict4,y_test))
    print("train accuracy for xgb1:", accuracy_score(y_train_predict5,y_train1))
    print("test accuracy for xgb1:", accuracy_score(y_test_predict5,y_test1))
[136]

    compareModel()
[138]
... train accuracy for rfc: 1.0
    test accuracy for rfc: 0.9996047225828354
    train accuracy for dtc: 1.0
    test accuracy for dtc: 0.999607080102222
    train accuracy for etc: 1.0
    test accuracy for etc: 0.9996330128154753
    train accuracy for svc: 0.9592966419493856
    test accuracy for svc: 0.9596054769890391
    train accuracy for xgb1: 0.9998049152707532
    test accuracy for xgb1: 0.9997178835133954
```