Project Development Phase
Model Performance Test

Date	9th November 2023
Team ID	592380
Project Name	Online Payments Fraud Detection Using ML
Maximum Marks	10 Marks

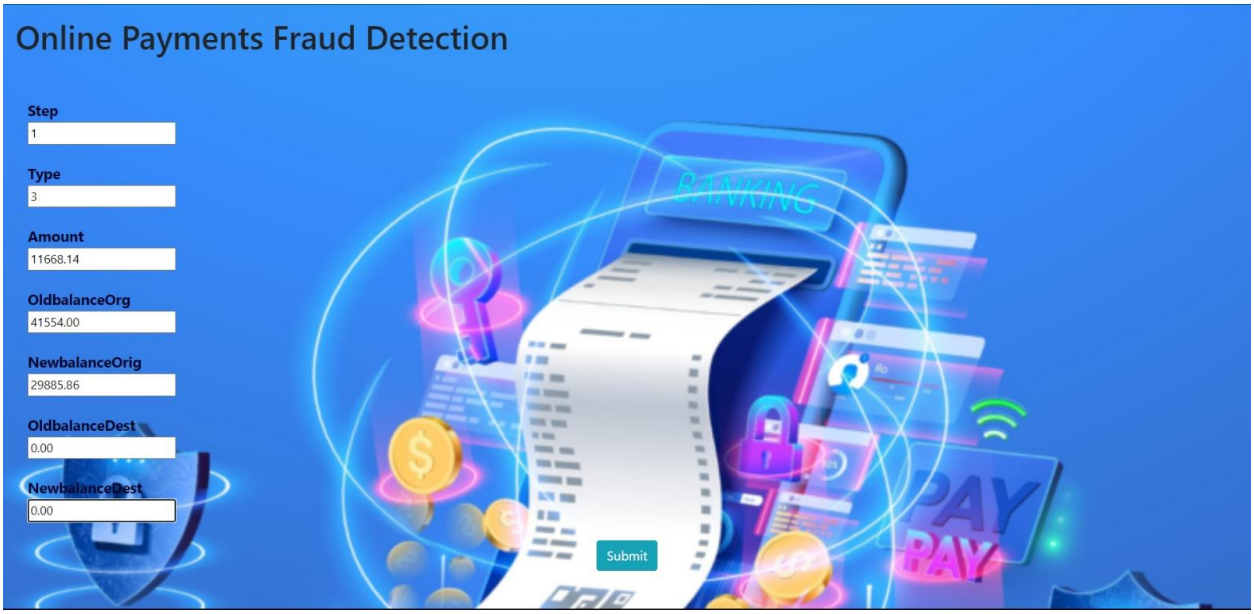
Model Performance Testing:

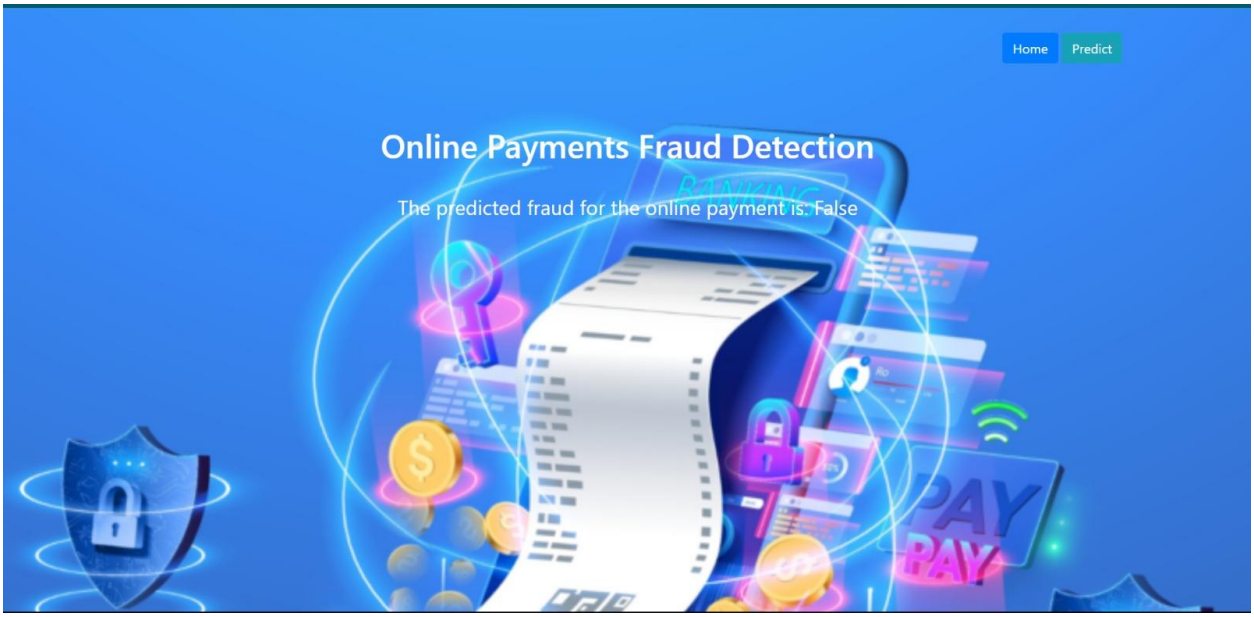
S.No.	Parameter	Values	Screenshot
1.	Metrics	**Classification Model:** Confusion Matrix , Accuray Score& Classification Report	Accuracy

```
[ ] from sklearn.svm import SVC
    from sklearn.metrics import accuracy_score
    svc= SVC()
    svc.fit(x_train,y_train)
    y_test_predict4=svc.predict(x_test)
    test_accuracy=accuracy_score(y_test,y_test_predict4)
    test_accuracy

    0.9947368421052631

[ ] y_train_predict4=svc.predict(x_train)
    train_accuracy=accuracy_score(y_train,y_train_predict4)
    train_accuracy

    0.9949104949104949
```

			Confusion Matrix
			`[ ] pd.crosstab(y_test,y_test_predict5)`
			col_0 | is Fraud | is not Fraud
			isFraud
			is Fraud | 6 | 9
			is not Fraud | 0 | 2835
			Classification Report
			`print(classification_report(y_test,y_test_predict5))`
			precision recall f1-score support
			is Fraud 1.00 0.40 0.57 15
			is not Fraud 1.00 1.00 1.00 2835
			accuracy 1.00 2850
			macro avg 1.00 0.70 0.78 2850
			weighted avg 1.00 1.00 1.00 2850

Results:


Online Payments Fraud Detection
Step
1
Type
3
Amount
11668.14
OldbalanceOrg
41554.00
NewbalanceOrig
29885.86
OldbalanceDest
0.00
NewbalanceDest
0.00
Submit


Home
Predict
Online Payments Fraud Detection
The predicted fraud for the online payment is: False