

Project Development Phase
Model Performance Test

Date	9 th 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	<p>Accuracy</p> <pre>[] 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</pre>

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:

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Online Payments Fraud Detection

The objective of this article is to predict online payments fraud given the various parameters. This will be a classification problem since the target or dependent variable is the fraud (categorical values). The purpose of fraud of online payments are to separate the available supply of potable online payments into classes differing in superiority. We will be using classification algorithms such as Decision tree, Random forest, svm, and Extra tree classifier. We will train and test the data with these algorithms.

Online Payments Fraud Detection

Step

1

Type

3

Amount

11668.14

OldbalanceOrig

41554.00

NewbalanceOrig

29885.86

OldbalanceDest

0.00

NewbalanceDest

0.00

Submit

Online Payments Fraud Detection

The predicted fraud for the online payment is: False

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Predict