

## Project development phase

### Model performance testing

Date	2 sept 2023
Team ID	Team-591938
Project Name	Online Payment fraud detection
Maximum Marks	10 Marks

Model performance testing:

S.No.	Parameter	values	screeshots
1	Metrics	Accuracy score ,  classification report	<pre>print('Testing Accuracy = ', accuracy_score(ytest,y_predict)) print('Training Accuracy = ', accuracy_score(ytrain,y_predict_train))</pre> <pre>38] ... Testing Accuracy =  0.9997163118338043 Training Accuracy =  0.9999998035400511</pre> <pre>print(classification_report(ytest,y_predict))</pre> <pre>[40] ...               precision    recall  f1-score   support     Fraud           0.89       0.89       0.89        1620   No Fraud          1.00       1.00       1.00       1270904   accuracy              1.00       1.00       1.00       1272524   macro avg           0.94       0.94       0.94       1272524  weighted avg          1.00       1.00       1.00       1272524</pre>

2	Tune the mode	validation	<pre> (variable) y_predict_train: ndarray y_predict_train = model.predict(xtrain) y_predict_train  array(['No Fraud', 'No Fraud', 'No Fraud', ..., 'No Fraud', 'No Fraud',       'No Fraud'], dtype=object)  model.predict([[4,180,181,10]])  c:\Users\jangi\AppData\Local\Programs\Python\Python312\Lib\site-packages X does not have valid feature names, but DecisionTreeClassifier was fitted array(['Fraud'], dtype=object) </pre>
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