Project Development Phase
Model Performance Test

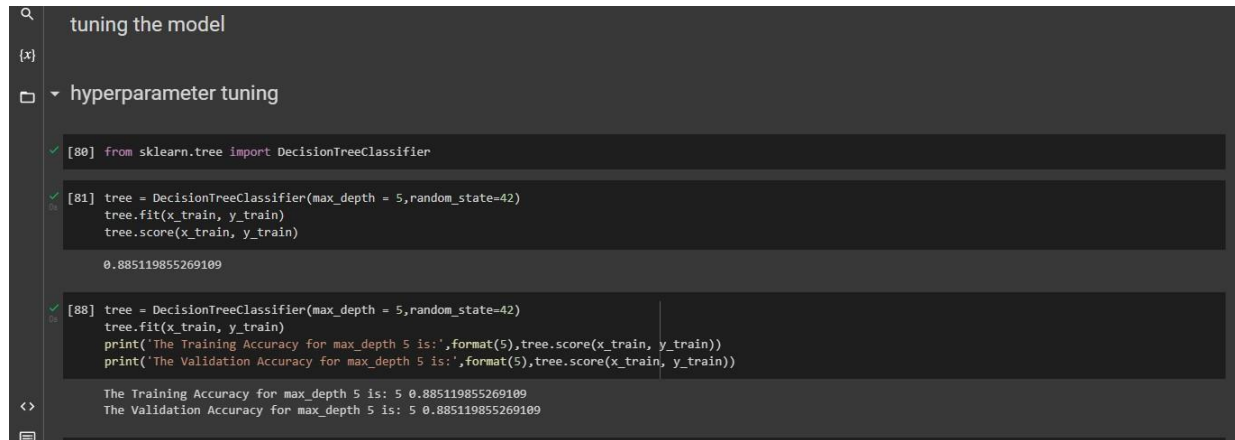| Date	10 November 2022
Team ID	PNT2022TMID32768
Project Name	Project – Web Phishing Detection
Maximum Marks	10 Marks

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Values
1.	Tune the model	Hyper parameter Tuning - Validation Method
2.	Metrics	**Regression Model: Logistic Regression** MAE – 0.26142017186793304 MSE - 0.5228403437358661 RMSE - 0.7230769971004928 R2 score - -2.888673182487615 **Classification Model: Decision Tree Classifier** Confusion Matrix - array([[61, 249], [26, 1875]]) Accuracy Score- 0.8756218905472637

1.TUNE THE MODEL: DECISION TREE CLASSIFIER

HYPERPARAMETER TUNING:

tuning the model

▼ hyperparameter tuning

```
[80] from sklearn.tree import DecisionTreeClassifier
```

```
[81] tree = DecisionTreeClassifier(max_depth = 5,random_state=42)
     tree.fit(x_train, y_train)
     tree.score(x_train, y_train)

     0.885119855269109
```

```
[88] tree = DecisionTreeClassifier(max_depth = 5,random_state=42)
     tree.fit(x_train, y_train)
     print('The Training Accuracy for max_depth 5 is:',format(5),tree.score(x_train, y_train))
     print('The Validation Accuracy for max_depth 5 is:',format(5),tree.score(x_train, y_train))

     The Training Accuracy for max_depth 5 is: 5 0.885119855269109
     The Validation Accuracy for max_depth 5 is: 5 0.885119855269109
```