

Project Development Phase Model Performance Test

Date	19 November 2022
Team ID	PNT2022TMID24546
Project Name	Project - Developing A Flight Delay Prediction Model Using Machine Learning
Maximum Marks	10 Marks

Model Performance Testing:

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

S.No.	Parameter	Values	Screenshot
1.	Metrics	Regression Model: MAE - , MSE - , RMSE - , R2 score - Classification Model: Confusion Matrix - , Accuray Score- & Classification Report -	<pre>In [30]: from sklearn.tree import DecisionTreeClassifier classifier = DecisionTreeClassifier(random_state = 0) classifier.fit(x_train,y_train) Out[30]: DecisionTreeClassifier(random_state=0) In [31]: decisiontree = classifier.predict(x_test) In [32]: decisiontree Out[32]: array([1, 0, 0, ..., 1, 0, 0], dtype=uint8)</pre>
2.	Tune the Model	Hyper parameter Tuning - Validation Method -	<pre>In [33]: from sklearn.metrics import accuracy_score desacc = accuracy_score (y_test,decisiontree) In [34]: desacc Out[34]: 0.9893190921228304 In [39]: import pickle</pre>