Project Development Phase Model Performance Test

Date	11 November 2022		
Team ID	PNT2022TMID36161		
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	Classification Model: Confusion Matrix , Accuracy Score & Classification Report	In [24]: #Model Evaluation from sklearn.metrics import accuracy_score,confusion_matrix, classification_report print(accuracy_score(y_test, pred)) 0.9163899788711138 In [26]: print(confusion_matrix(y_test, pred)) [[2732 164] [113 304]] In [27]: print(classification_report(y_test, pred)) precision recall f1-score support 0.0 0.96 0.94 0.95 2896 1.0 0.65 0.73 0.69 417 accuracy macro avg 0.80 0.84 0.82 3313 weighted avg 0.92 0.92 0.92 3313 weighted avg 0.92 0.92 3313
2.	2. Tune the Model	Validation Method In [32]: Out[32]: In [35]: Out[35]:	<pre>In [31]: from sklearn.model_selection import cross_val_score, KFold, GridSearchCV kf = KFold(n_splits = 6, shuffle = True, random_state = 25) params = { 'max_depth': [4,5,6],</pre>