

Project Development Phase

Model Performance Test

Date	22 November 2022
Team ID	PNT2022TMID49460
Project Name	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	<pre>from sklearn.metrics import accuracy_score, confusion_matrix, classification_report print(accuracy_score(y_test, yhat)) 0.7019318889988636 print(confusion_matrix(y_test, yhat)) [[49358 9472] [14921 8086]]</pre>																														
2	Tune theModel	Hyperparameter Tuning , Validation Method	<pre>print(classification_report(y_test, yhat))</pre> <table><tr><th></th><th>precision</th><th>recall</th><th>f1-score</th><th>support</th></tr><tr><td>0</td><td>0.77</td><td>0.84</td><td>0.80</td><td>58830</td></tr><tr><td>1</td><td>0.46</td><td>0.35</td><td>0.40</td><td>23007</td></tr><tr><td>accuracy</td><td></td><td></td><td>0.70</td><td>81837</td></tr><tr><td>macro avg</td><td>0.61</td><td>0.60</td><td>0.60</td><td>81837</td></tr><tr><td>weighted avg</td><td>0.68</td><td>0.70</td><td>0.69</td><td>81837</td></tr></table>		precision	recall	f1-score	support	0	0.77	0.84	0.80	58830	1	0.46	0.35	0.40	23007	accuracy			0.70	81837	macro avg	0.61	0.60	0.60	81837	weighted avg	0.68	0.70	0.69	81837
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