Project Development Phase Model Performance Test

Date	10 November 2022	
Team ID	PNT2022TMID17945	
Project Name	Developing a Flight Delay Prediction Model	
	using Machine Learning	
Maximum Marks	10 Marks	

Model Performance Testing:

S.No.	Parameter	Values	Screenshot
1.	Model Summary	Random Forest Classifier	Random Forest Classifier forest_reg = RandomForestClassifier(n_estimators = 10, criterion = 'entropy',random_state = 42) forest_reg,fit(X_train,Y_train) model = forest_reg,fit(X_train , Y_train.ravel()) pred = model.predict(X_test) print('Mean Absolute Error:', metrics.mean_absolute_error(Y_test, pred)) print('Mean Squared Error:', metrics.mean_squared_error(Y_test, pred)) print('Root Mean Squared Error:', np.sqrt(metrics.mean_squared_error(Y_test, pred))) print('Report for test size = ", test_sz[i], "is shown below:") print(classification_report(Y_test, pred)) matrix_confusion = confusion_matrix(y_true=Y_test, y_pred=pred) print(matrix_confusion) sns.heatmap(matrix_confusion, square=True, annot=True, cmap='blues', fmt='d', cbar=False)
2.	Accuracy	Training Accuracy - 89 Classification Report	Mean Absolute Error: 0.10007122507122507 Mean Squared Error: 0.10007122507122507 Root Mean Squared Error: 0.3163403626969298 Accuracy: 0.8999287749287749
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