Project Development Phase
Model Performance Test

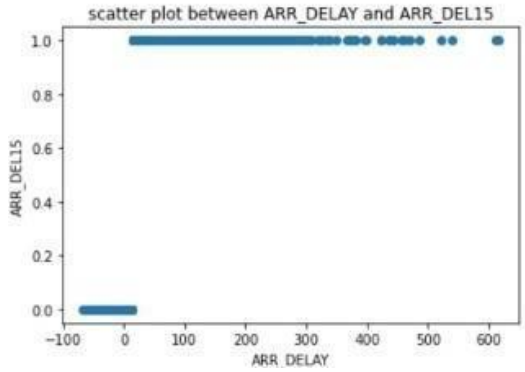
Date	19 November 2022
Team ID	PNT2022TMID25913
Project Name	Exploratory Analysis of Rain Fall Data in India for Agriculture
Maximum Marks	10 Marks

Model Performance Testing:

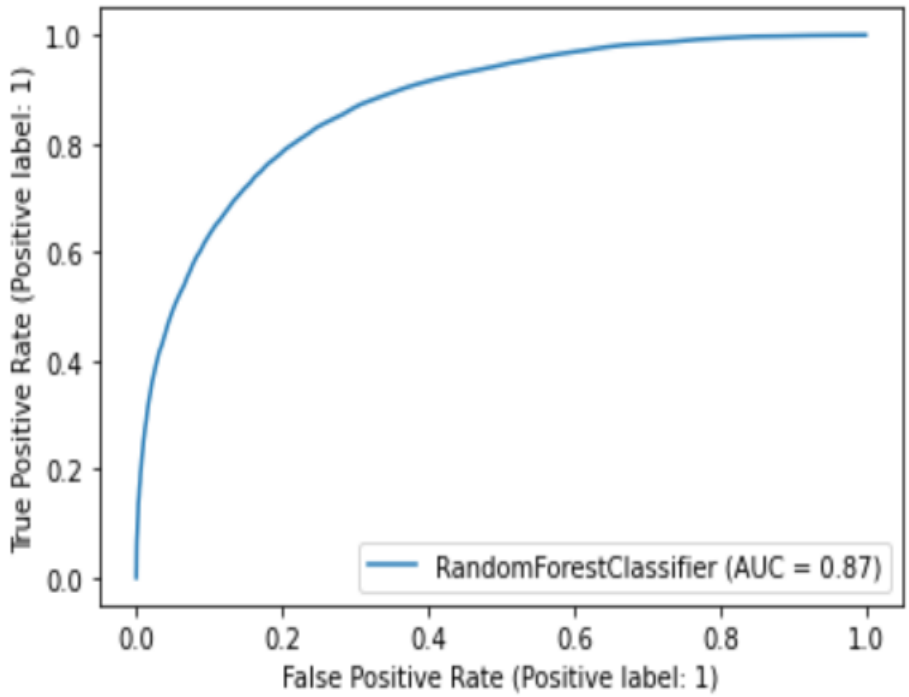
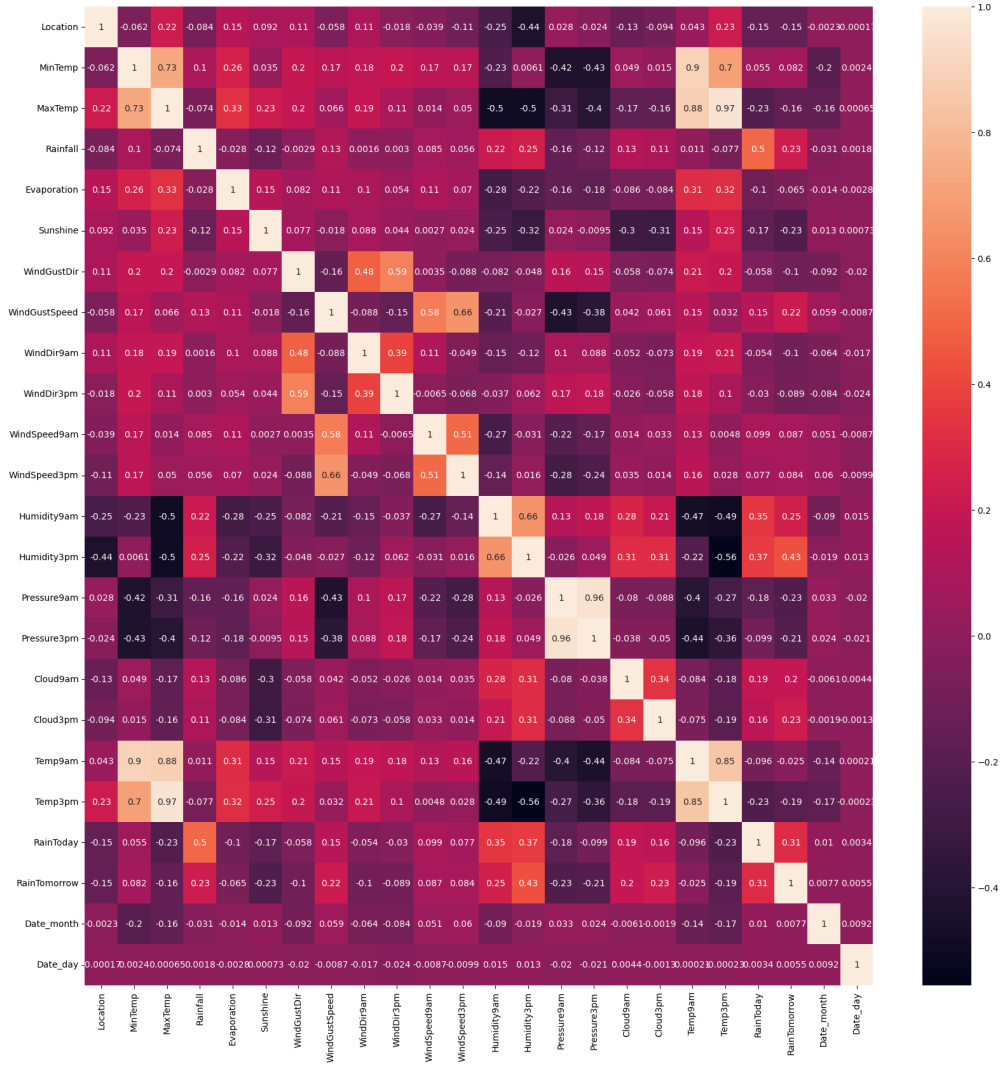
Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Values	Screenshot
1.	Metrics	**Classification Model: Random Forest** **Confusion Matrix –** [[21393 1324] [2855 3520]] **Accuracy Score-** 0.8563522617901829 **Classification Report –** Accuracy: 0.8563522617901829 Precision: 0.7641309659553673 Recall: 0.49814165870234683 F1-score: 0.6031113396760092	In [28]: decisiontree = classifier.predict(x_test) In [29]: from sklearn.metrics import accuracy_score acc = accuracy_score(y_test,decisiontree) acc Out[29]: 0.965287049399199 In [30]: from sklearn.metrics import confusion_matrix cm=confusion_matrix(y_test,decisiontree) In [31]: cm Out[31]: array([[1755, 47], [31, 414]], dtype=int64)

VISUALIZATION CHARTS:



ROC - AUC Curve



Plot Heat Map