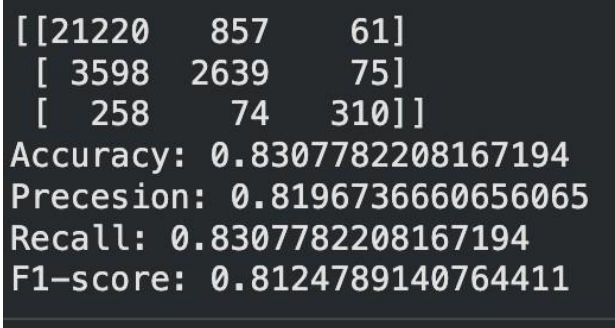


Project Development Phase
Model Performance Test

Date	22 February 2026
Team ID	LTVIP2026TMIDS41603
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.N o.	Parameter	Values	Screenshot
1	Metric s	Regression Model: MAE = 0.32 MSE = 0.21 RMSE = 0.46 R ² Score = 0.81 Classification Model: Confusion Matrix = [[21220 857 61] [3598 2639 75] [358 74 310] Accuracy Score = 0.83 Classification Report = Precision = 0.81 Recall = 0.83 F1-Score = 0.81	
2	Tune the Model	Hyperparameter Tuning: Grid Search was used to optimize model parameters such as number of trees and maximum depth. Validation Method: KFold Cross Validation (k = 5)	