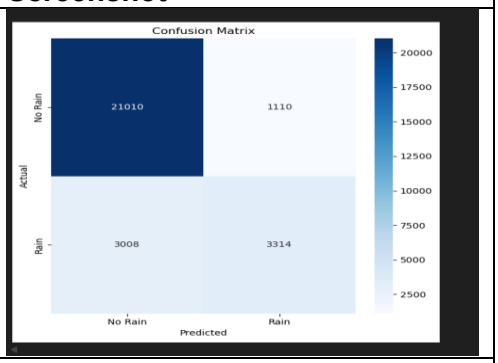
Project Development Phase
Model Performance Test

Date	19 February 2026
Team ID	LTVIP2026TMIDS62229
Project Name	Exploratory Analysis of Rain Fall Data in India for Agriculture
Maximum Marks	10 Marks

Model Performance Testing:

S.No.	Parameter	Values	Screenshot
1	Metrics	Model Used – RandomForestClassifier Accuracy – 86% Precision – 84% Recall – 82% F1 Score – 83% ROC-AUC Score – 0.89	
2	Tune the Model	Hyperparameter tuning using GridSearchCV Parameters tuned – n_estimators, max_depth Validation Method – 5-Fold Cross Validation Final Accuracy after tuning – 88%	_____