

Project Development Phase
Model Performance Test

Date	19 February 2025
Team ID	LTVIP2026TMIDS75186
Project Name	Project - Rising waters: A Machine Learning Approach to Flood Prediction
Maximum Marks	10 Marks

Model Performance Testing:

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

S. No	Parameter	Values
1. 1	Metrics	Classification Model: Accuracy = 91% Precision = 0.89 Recall = 0.92 F1-Score = 0.90 Confusion Matrix Generated (If Regression Used): MAE = 0.18 MSE = 0.07 RMSE = 0.26 R ² Score = 0.87
2. 2	Tune the Model	Hyperparameter Tuning: GridSearchCV Parameters Tuned: - n_estimators = 100, 200 - max_depth = 5, 10 - min_samples_split = 2, 5 Validation Method: - 5-Fold Cross Validation - Stratified sampling used