Project Development Phase
Model Performance Test

Date	10 February 2025
Team ID	LTVIP2026TMIDS41276
Project Name	online payments fraud detection using machine learning
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	Regression model: MAE – 0.12 MSE – 0.08 RMSE – 0.28 R² Score – 0.91 **Confusion Matrix – [[TN, FP], [FN, TP]]** **Accuracy Score – 0.98 (98%)** **Precision – 0.71** **Recall – 0.79** **F1-Score – 0.75**	
2.	Tune the Model	Hyperparameter Tuning – • n_estimators • max_depth • min_samples_split • min_samples_leaf Validation Method – Used Train-Test Split (80%-20%) Also applied 5-Fold Cross Validation	