

Project Development Phase
Model Performance Test

Date	10 February 2025
Team ID	LTVIP2026TMIDS42143
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 R ² 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 – <ul style="list-style-type: none"> • n_estimators • max_depth • min_samples_split • min_samples_leaf Validation Method – Used Train-Test Split (80%-20%) Also applied 5-Fold Cross Validation	