

Project Development Phase

Model Performance Test

Date	10 February 2026
Team ID	LTVIP2026TMIDS24884
Project Name	Heart Disease Analysis
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 – 2.35, MSE – 8.45, RMSE – 2.91, R ² score – 0.87 Classification Model: Confusion Matrix – [[45,5],[7,43]], Accuracy Score – 0.88, Classification Report – Precision: 0.89, Recall: 0.86, F1-Score: 0.875	
2.	Tune the Model	Hyperparameter Tuning – max_depth=5, min_samples_split=10, regularization=0.01 Validation Method – 5-Fold Cross Validation	