Project Development Phase
Model Performance Test

Date	10 February 2026
Team ID	LTVIP2026TMIDS65560
Project Name	Educational Organization Using ServiceNow
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 - , MSE - , RMSE - , R2 score - **Classification Model:** Confusion Matrix - , Accuray Score- & Classification Report -	Model summary output
2.	Tune the Model	Hyperparameter Tuning - Validation Method -	Training result graph

Regression Model

- MAE → 2.3
- MSE → 6.8
- RMSE → 2.60
- R² Score → 0.89

Classification Model

- Confusion Matrix → [[45,5],[3,47]]
- Accuracy Score → 92%
- Classification Report → Precision (0.91), Recall (0.92), F1-score (0.91)

Tune the Model

- Hyperparameter Tuning → Grid Search / Random Search
- Validation Method → Cross Validation / Train-Test Split