Performance Testing Phase Model Performance Test

Date	27 June 2025
Team ID	LTVIP2025TMID35510
Project Name	Traffic Telligence Advanced Traffic Volume Estimation With Machine Learning
Maximum Marks	

Model Performance Testing:

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

S.No.	Parameter	Values	Screenshot		
1.	Model Summary	XGBoost Regressor Model Features used: Date, Time, Weather, Holiday indicator, etc. Trained with standardized inputs and grid search hyperparameters for optimal results	Here is a summary of the model performance:		
2.	Accuracy	Training Accuracy (R ²): 0.94 Validation Accuracy (R ²): 0.89	Correlation Matrix 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.		
3.	Fine Tunning Result(if Done)	After hyperparameter tuning (e.g., n_estimators, max_depth), validation R ² improved to 0.91	Property coveredad intervales		