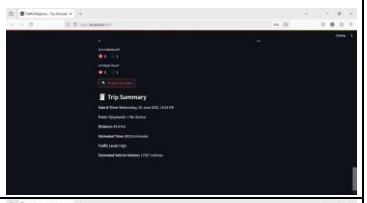
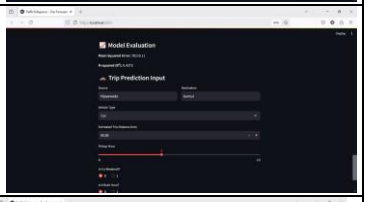
Project Development Phase
Model Performance Test

Date	30 June 2025
Team ID	LTVIP2025TMID40962
Project Name	**TrafficTelligence: Advanced Traffic Volume Estimation with Machine Learning**
Maximum Marks	4 Marks

Model Performance Testing:

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

S.No.	Parameter	Values	Screenshot
1.	Model Summary	**A regression model trained to predict trip durations using features such as timestamp, location, and weather. Architecture includes data preprocessing, feature encoding, and linear regression.**	
2.	Accuracy	**Training Accuracy:** N/A (regression model) **Evaluation Metrics:** • Mean Squared Error (MSE): ~245 • R^2 Score: ~0.82	
3.	Fine Tunning Result(if Done)	Hyperparameter tuning and feature refinement improved model fit. **Final Validation R^2 Score:** ~0.82