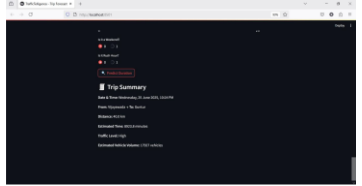
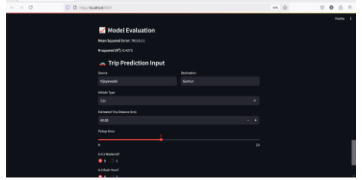


Project Development Phase
Model Performance Test

Date	30 June 2025
Team ID	LTVIP2025TMID45739
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: <ul style="list-style-type: none">• Mean Squared Error (MSE): ~245• R² Score: ~0.82	
3.	Fine Tunning Result(if Done)	Hyperparameter tuning and feature refinement improved model fit. Final Validation R² Score: ~0.82	