

Project Development Phase
Model Performance Test

Date	27 June 2025
Team ID	LTVIP2025TMID59638
Project Name	TrafficTelligence: Advanced Traffic Volume Estimation with Machine Learning
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	Model Summary	<ul style="list-style-type: none">- Model Type: RandomForestRegressor- Input Features: holiday, temp, rain, snow, clouds, weather- Target Variable: traffic_volume- Preprocessing: OneHotEncoding for categorical variables, MinMaxScaler for numerical values- Train-Test Split: 80% - 20%	<pre>MSE = metrics.mean_squared_error(p5,y_test) np.sqrt(MSE)</pre> 794.8443863964126
2	Accuracy	<ul style="list-style-type: none">- Training Accuracy (R² Score): 0.92- Validation Accuracy (R² Score): 0.86	Training Accuracy (R ² Score): 0.9203 Validation Accuracy (R ² Score): 0.8617