

Project Development Phase

Model Performance Test

Date	17th July, 2025
Team ID	LTVIP2025TMID56158
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.	Metrics	<b>Regression Model:</b> MAE - , MSE - , RMSE - , R2 score -	<div><pre>MSE = metrics.mean_squared_error(p5,y_test) np.sqrt(MSE)</pre></div> <div>798.2812004550777</div>																
2.	Tune the Model	Hyperparameter Tuning – Used XGBoost	<div><div>XGBRegressor ⓘ ⓘ</div><div>▼ Parameters</div><table><tr><td>📄 objective</td><td>'reg:squarederror'</td></tr><tr><td>📄 base_score</td><td>None</td></tr><tr><td>📄 booster</td><td>None</td></tr><tr><td>📄 callbacks</td><td>None</td></tr><tr><td>📄 colsample_bylevel</td><td>None</td></tr><tr><td>📄 colsample_bynode</td><td>None</td></tr><tr><td>📄 colsample_bytree</td><td>None</td></tr><tr><td>📄 device</td><td>None</td></tr></table></div>	📄 objective	'reg:squarederror'	📄 base_score	None	📄 booster	None	📄 callbacks	None	📄 colsample_bylevel	None	📄 colsample_bynode	None	📄 colsample_bytree	None	📄 device	None
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