

## Project Development Phase Model Performance Test

Date	27 <sup>th</sup> June, 2025
Team ID	LTVIP2025TMID36740
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><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></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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