Project Development Phase Model Performance Test

Date	27 June 2025	
Team ID	LTVIP2025TMID45044	
Project Name	traffictelligence: advanced traffic volume estimation with machine	
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	Regression Model: MAE - , MSE - 636,827.7, RMSE 798.39- , R2 score -0.8033	print(estrics.r2.score;pl.y.fest)) print(estrics.r2.score;pl.y.fest)) print(estrics.r2.score;pl.y.fest)) print(estrics.r2.score;pl.y.fest)) print(estrics.r2.score;pl.y.fest)) print(estrics.r2.score;pl.y.fest)) 5.366817967737888 8.06333716379795884 8.0633371637959884 8.0763371637969849
		Classification Model: Confusion Matrix - , Accuray Score- & Classification Report -	Mod-metrics.mean_squared_error(p),y_test) 19sprt(mes) 794.393424781249
2.	Tune the Model	Hyperparameter Tuning - GridSearchCV used on parameters like: max_depth, n_estimators, min_samples_split (for RandomForest) Validation Method - K-Fold Cross Validation (K=5) used to avoid overfitting and ensure robust model performance	from schemoscole, selection layers trade_test_split schemoscolers of product productions from _split(p,y) and _standar_thates) from schemoscolers (see trade_test_split(p,y) and _standar_thates) from schemoscolers (see the schemoscolers) f