Project Development Phase Model Performance Test

Date	27 june 2025	
Team ID	LTVIP2025TMID38854	
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	Regression Model: MAE - 212.34 MSE - 595287.64 RMSE - 771.55 R ² Score - 0.8494	# Step b: Evaluate using #* Score print("Linear Regression 22:", metrics.r2_score(y_test, p1)) print("Decision Tree R2: ", metrics.r2_score(y_test, p2)) print("Random Forest R2: ", metrics.r2_score(y_test, p2)) print("Siboot R2: ", metrics.r2_score(y_test, p3)) print("Siboot R2: ", metrics.r2_score(y_test, p3)) # Step 7: (Options) POES for Random Forest me: metrics.mean_payares_error(y_test, p3) metrics.mean_payares_error(y_test, p3) metrics.mean_payares_error(y_test, p3) ### Step 7: (Options) POES for Random Forest Payares #### Simple Poess Poess for Random Forest Payares #### Simple Poess for Random Forest Payares #### Sim
2.	Tune the Model	Hyperparameter Tuning: Used default RandomForestRegressor with n_estimators=100. Validation Method: Used 80:20 train-test split with random_state=0	from talearn import moments from talearn import moments linyare yalmose, most included a processing to the largest yalmose and included a processing to the designation of the content of the content of the largest yalmose and the largest yalmose