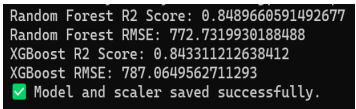


**Project Development Phase**  
**Model Performance Test**

Date	29 June 2025
Team ID	LTVIP2025TMID46233
Project Name	TrafficTelligence: Advanced Traffic Volume Estimation with Machine Learning
Maximum Marks	10 Marks

**Model Performance Testing:**

The project team shall fill the following information in the model performance testing template.

S.No.	Parameter	Values	Screenshot
1.	Metrics	<b>Regression Model:</b> MAE, MSE, RMSE, R2 score  <b>Classification Model:</b> Confusion Matrix , Accuray Score & Classification Report	 <pre>Random Forest R2 Score: 0.8489660591492677 Random Forest RMSE: 772.7319930188488 XGBoost R2 Score: 0.843311212638412 XGBoost RMSE: 787.0649562711293 ✅ Model and scaler saved successfully.</pre>
2.	Tune the Model	Hyperparameter Tuning Validation Method	