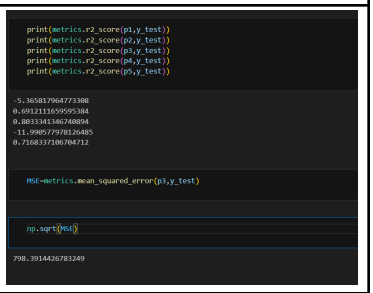
Project Development Phase
Model Performance Test

Date	27 June 2025
Team ID	LTVIP2025TMID41330
Project Name	trafficctelligence: 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 - , MSE - 636,827.7, RMSE 798.39- , R2 score -0.8033 **Classification Model:** Confusion Matrix - , Accuray Score- & Classification Report -	
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