**Project Development Phase**

**Model Performance Test**

|  |  |
| --- | --- |
| Date | 10 February 2025 |
| Team ID | PNT2022TMID45799 |
| 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** |
|  | Metrics | **Regression Model:** • MAE: **211.90** • RMSE: **371.16** • R² Score: **0.9653**  **Classification Model:** Not Applicable |  |
|  | Tune the Model | **Hyperparameter Tuning:** ❌ No hyperparameter tuning was applied.  **Model Used:** • RandomForestRegressor with default settings.   • Used train\_test\_split(test\_size=0.2) from sklearn.model\_selection • Data was split into training (80%) and testing (20%) sets |  |