**Project Development Phase**

**Model Performance Test**

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| Date | 27 June 2025 |
| Team ID | LTVIP2025TMID60630 |
| 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.

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| **S.No.** | **Parameter** | **Values** | **Screenshot** |
|  | Metrics | **Regression Model:** MAE – 1620.45  MSE – 3357277.50  RMSE – 1832.29  R2 score - -88.9427 |  |
|  | Tune the Model | **Validation Method:**  5-Fold Cross-Validation  **Hyperparameters:**    Random Forest Regressor:  Number of Estimators: 100  Maximum Depth: None  Minimum Samples Split: 2  Tuning Method: Grid Search CV  XGBoost Regressor:  Learning Rate: 0.1  Maximum Depth: 6  Number of Estimators: 200  Tuning Method: Randomized Search CV |  |