**Project Development Phase**

**Model Performance Test**

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| Date | 27 June 2025 |
| Team ID | LTVIP2025TMID44293 |
| Project Name | Traffic Intelligence : Advanced Traffic Volume Estimation with Machine Learning |
| Maximum 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** |
|  | Model Summary | The model predicts traffic volume using ML regression techniques.Random Forest Regressor gave the best performance with high accuracy.Evaluation metrics used include MAE , RMSE and R^2 Score.The model is deployed via a Flask API for real-time predictions. |  |
|  | Accuracy | Training Accuracy - 98%  Validation Accuracy -98% |  |
| 3. | Fine Tunning Result( if Done) | Validation Accuracy -98% |  |