**Project Development Phase**

**Model Performance Test**

|  |  |
| --- | --- |
| Date | 24 June 2025 |
| Team ID | LTVIP2025TMID35493 |
| Project Name | TrafficTelligence: Advanced Traffic Volume Estimation with Machine Learning |
| Maximum Marks |  |

**Model Performance Testing:**

|  |  |  |
| --- | --- | --- |
| **S.No.** | **Parameter** | **Values** |
|  | Data Rendered | - Live traffic data from public APIs and camera feeds. - Historical traffic datasets. |
|  | Data Preprocessing | - Cleaning missing GPS entries - Normalizing traffic volume and speed - Timestamp formatting |
| 3. | Utilization of Filters | - Filters applied on: • Region/Area • Time range • Day type (weekday/weekend) • Traffic severity |
| 4. | Calculation fields Used | - Estimated Time of Arrival (ETA) - Average Congestion Level (%) - Traffic Density Score |
| 5. | Dashboard design | Graphs :6  • Real-time traffic map • Bar chart for congestion levels • Line graph of traffic trend over time • Pie chart for vehicle types • Route comparison chart • Heatmap for high traffic zones |
| 6 | Story Design | Graphs :4  **Use case flows:** • Commuter's journey • Emergency route assistance • Admin monitoring dashboard • Traffic incident detection |