**Project Development Phase**

**Model Performance Test**

| Date | 10 February 2025 |
| --- | --- |
| Team ID | LTVIP2025TMID47299 |
| Project Name | Project - Visualization Tool For Electric Vehicle Charge And Range Analysis |
| Maximum Marks |  |

**Model Performance Testing:**

Project team shall fill the following information in model performance testing template.

| **S.No.** | **Parameter** | **Screenshot / Values** |
| --- | --- | --- |
|  | Data Rendered | EV model name, battery capacity (kWh), charge time (hours), range (km), cost, charger type |
|  | Data Preprocessing | Cleaned missing values, standardized units (km, kWh), derived total charging time and cost efficiency metrics |
| 3. | Utilization of Filters | EV brand, charger type, battery capacity, price range, range in km |
| 4. | Calculation fields Used | Cost per km = cost / range, Charging Efficiency = range / charge time |
| 5. | Dashboard design | No of Visualizations / Graphs - 6<br>• Bar chart: Range vs. Battery Capacity<br>• Line graph: Charge Time vs. Range<br>• Scatter plot: Cost per km vs. Charger Type<br>• Pie chart: EV Brand Share<br>• Heatmap: Charge Time vs. Cost<br>• Map: Regional EV Adoption |
| 6 | Story Design | No of Visualizations / Graphs -4<br>• Introduction to EV Models<br>• Charging Infrastructure & Efficiency<br>• Cost vs Range Comparison<br>• Final Recommendation Summary |