**Project Development Phase**

**Model Performance Test**

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| Date | 10 February 2025 |
| Team ID | PNT2022TMID47779 |
| Project Name | Visualization Tool For Electric Vehicle Charge And Range Analysis |
| Maximum Marks | 5/7 |

**Model Performance Testing:**

| **S.No.** | **Parameter** | **Screenshot / Values (Descriptive Entry)** |
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| 1 | **Data Rendered** | ✔️ Successfully rendered 4 different datasets:• Indian EV specs dataset• Global EV stats• Charging time vs range• Brand-wise adoption trends |
| 2 | **Data Preprocessing** | ✔️ Null value handling✔️ Data type conversions✔️ Column renaming✔️ Merged sources in Tableau for story linking |
| 3 | **Utilization of Filters** | ✔️ Brand-wise filters (Tata, MG, Hyundai, etc.)✔️ Range filters (e.g., <150 km, 150–300 km, >300 km)✔️ Country filters (India / Global)✔️ Year or timeline filter |
| 4 | **Calculation Fields Used** | ✔️ Calculated Field 1: Average Range per Battery Size✔️ Calculated Field 2: Efficiency (Range/Charging Time)✔️ Custom KPI field: % Growth of EV Adoption |
| 5 | **Dashboard Design** | ✔️ Number of Visualizations / Graphs: **6**• Bar charts (Brand vs Range)• Line chart (Adoption over years)• Pie chart (Battery distribution)• Heatmap (Charging infra density)• KPI cards• Interactive Map (optional) |
| 6 | **Story Design** | ✔️ Number of Story Visuals / Graphs: **5**• Point 1: Introduction to EV Growth• Point 2: Charge vs Range• Point 3: India vs Global Performance• Point 4: Brand Analysis• Point 5: Conclusion & Future Outlook |