

**Project Development Phase**  
**Model Performance Test**

Date	15 Feb 2026
Team ID	LTVIP2026TMIDS43270
Project Name	Visualization Tool for Electric Vehicle Charge and Range Analysis with Tableau
Maximum Marks	

**Model Performance Testing:**

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

S.No.	Parameter	Screenshot / Values
1	<b>Data Rendered</b>	Rendered from cleaned CSV datasets containing EV car specifications, charging station data, brand performance, efficiency metrics, price, powertrain type, and regional distribution (1000+ records including station and vehicle data).
2	<b>Data Preprocessing</b>	Handled missing/null values in range, price, and efficiency fields. Standardized brand names and powertrain categories. Created calculated mappings for region, charging station type, vehicle body style, and efficiency classification.
3	<b>Utilization of Filters</b>	Tableau filters applied for Brand, Region, Powertrain Type, Body Style, Charging Station Type, and Price Range. Interactive filtering with response time under 3–5 seconds.
4	<b>Calculation Fields Used</b>	- Average EV Price by Brand - Top Speed Comparison - Efficiency (km/kWh) Ranking - Brand-wise Model Count - Charging Station Count by Region - KPI Metrics (Avg Range, Avg Price, Total Stations, Top Brand by Efficiency)
5	<b>Dashboard Design</b>	9 visualizations designed across EV analytics dashboard including: <ul style="list-style-type: none"> <li>• Charging Stations by Region</li> <li>• EV Charging Station Map of India</li> <li>• Top Speed by Brand • Price Comparison Chart</li> <li>• Top 10 Efficient EV Brands • Brand by Body Style</li> <li>• Model Count by Brand • Powertrain Filtered View</li> <li>• KPI Summary Cards</li> </ul>

6	<b>Story Design</b>	<p>1 Tableau Story created with multiple story points highlighting:</p> <ul style="list-style-type: none"> <li>• EV Charging Stations Map</li> <li>• Different EV Cars in India</li> <li>• Charging Stations by Region &amp; Type</li> <li>• Number of Models by Brand</li> <li>• Price Analysis</li> </ul>
7	<b>Publishing and Web integration</b>	<p>Dashboard and Story published to <b>Tableau Public / Tableau Server</b> and embedded into a web interface using Tableau's embed code and JavaScript API.</p> <ul style="list-style-type: none"> <li>• Hosted on Web Platform (HTML, CSS, JavaScript)</li> <li>• Interactive filters functional online</li> <li>• Responsive design for laptop/projector view</li> <li>• Shareable public link for stakeholder access</li> <li>• Real-time dashboard interaction through browser</li> </ul>