

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	Data Rendered	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	Data Preprocessing	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	Utilization of Filters	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	Calculation Fields Used	- 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	Dashboard Design	9 visualizations designed across EV analytics dashboard including: <ul style="list-style-type: none">• Charging Stations by Region• EV Charging Station Map of India• Top Speed by Brand • Price Comparison Chart• Top 10 Efficient EV Brands • Brand by Body Style• Model Count by Brand • Powertrain Filtered View• KPI Summary Cards

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