Performance Testing

Date	1 July 2025
Team ID	LTVIP2025TMID48669
Project Name	Visualization Tool for Electric Vehicle Charge and Range Analysis.
Maximum Marks	

TITLE :

Visualization Tool for Electric Vehicle Charge and Range Analysis.

Team ID : LTVIP2025TMID48669

Team Members :

Team Leader : Likitha Dadi
Team member : Ella Likhitha
Team member : Gandi Dinesh
Team member : Allada Vasanth
Team member : Goona Ganapathi Swamy

MODEL PERFORMANCE TEST

S.No.	Parameter	Screenshot / Values
1.	Data Rendered	4 Datasets rendered successfully from MySQL and CSV sources: 1. EV Charging Stations (India) 2. EV Range & Battery Data 3. Global EV Sales Trends 4. State-wise EV Adoption Rates
2.	Data Preprocessing	➢ Null values handled, outliers removed ➢ Data types standardized across tables ➢ Joins and blending done using State, Date, and Vehicle_ID fields

3.	Utilization of Filters	➢ Applied filters on: 1. Country/State 2. Battery Capacity 3. Charging Type 4. Manufacturer 5. Year 6. Range Cluster
4.	Calculation fields Used	➢ Calculated Fields: 1. Avg_Range = Total Distance / Charge Cycles 2. Charging Efficiency = Energy Used / Charging Time 3. Adoption Rate Growth YoY
5.	Dashboard design	➢ No of Visualizations / Graphs – 7 Types included: 1. Map View of Charging Stations 2. Bar Chart: EV Sales by Year 3. Line Chart: Range Over Time 4. Pie Chart: Charging Type Distribution 5. Heatmap: Usage by Region 6. KPI Indicators 7. Comparative Analysis – State vs National Average
6.	Story Design	➢ No of Visualizations / Graphs – 4 Story Points: 1. Introduction to Global and Indian EV Trends 2. Challenges in EV Range and Charging 3. Dashboard Visual Insights 4. Recommendations for EV Stakeholders