FUNCTIONAL AND PERFORMANCE TESTING:

6.1 Performance Testing:

Model Performance Test

Date	19 June 2025
Team ID	LTVIP2025TMID47771
Project Name	Visualization Tool For Electric Vehicle Charge And Range Analysis
Maximum Marks	2 Marks

Model Performance Testing:

S.No.	Parameter	Screenshot / Values
1	Data Rendered	Data includes: Vehicle ID, Battery Level (%), Distance Travelled (km), Time of Charge, Location, Charging Type, Efficiency, Weather Data, etc.
2	Data Preprocessing	Null values removed, date-time formatted, distance converted (if needed), data grouped by vehicle and date, units standardized (e.g., km, %)
3	Utilization of Filters	Filters applied on: Battery level %, Location, Vehicle type, Date range, Charging station, Weather conditions
4.	Calculation fields Used	- Estimated Range = (Battery Level ÷ 100) × Max Range - Charge Efficiency = Distance Travelled ÷ Charge Time - Cost Estimation based on kWh

5	Dashboard design	**No of Visualizations / Graphs – 5** 1. Line Chart (Battery % over Time) 2. Map (Charging Locations) 3. Bar Chart (Efficiency by Vehicle) 4. KPI Cards 5. Scatter Plot (Charge vs Range)
6	Story Design	**No of Visualizations / Graphs – 5** 1. Line Chart (Battery % over Time) 2. Map (Charging Locations) 3. Bar Chart (Efficiency by Vehicle) 4. KPI Cards 5. Scatter Plot (Charge vs Range)