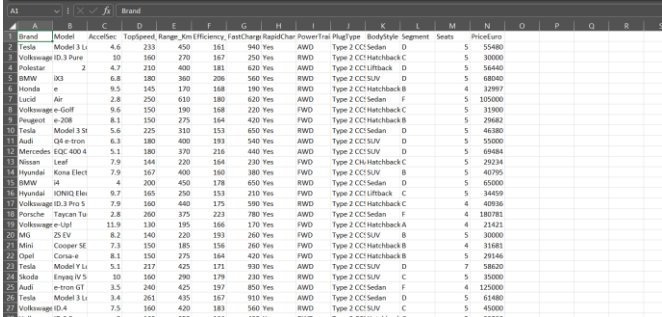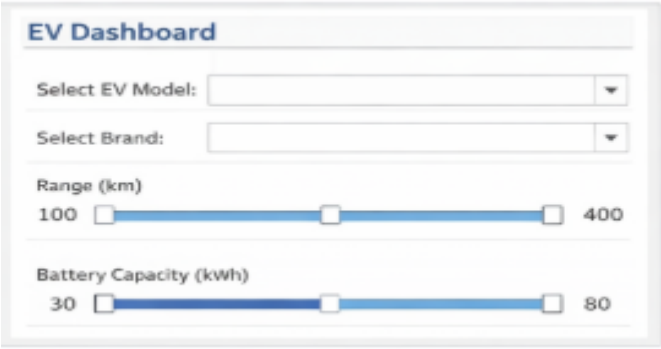# Project Development Phase
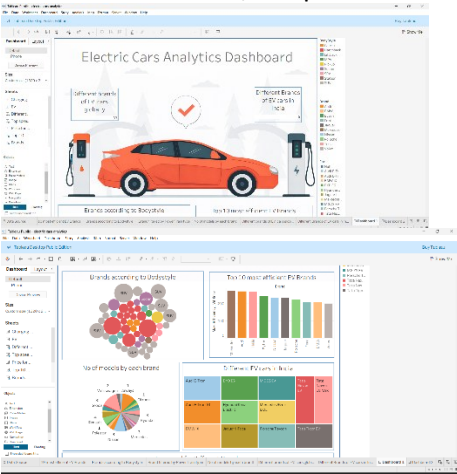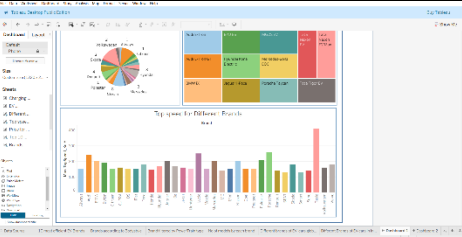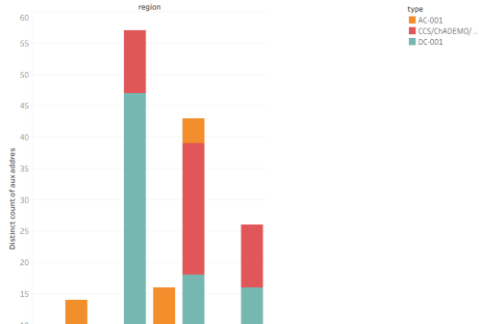## Performance Test

Date	18 February 2026
Team ID	LTVIP2026TMIDS40575
Project Name	Visualization Tool for Electric Vehicle Charge and Range Analysis
Maximum Marks	5 Marks

Model Performance Testing:

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

S.No.	Parameter	Screenshot / Values
1.	Data Rendered	The dashboard successfully renders EV data including vehicle model, battery capacity (kWh), charging time, price, and driving range (km). The data is visualized using charts and map representations for better understanding.
2.	Data Preprocessing	Data was cleaned before visualization by removing null values and duplicate records. Column names were standardized and units such as km and kWh were formatted properly to ensure consistency and accuracy.

3.	Utilization of Filters	 Interactive filters were implemented in the dashboard to allow users to analyze data based on EV model, brand, range, and battery capacity. These filters enable dynamic and customized data exploration.
4.	Calculation fields Used	 Calculated fields were created in Tableau to perform additional analysis such as average range and efficiency comparison. These calculated fields improve analytical insights and dashboard performance.
5.	Dashboard design	No of Visualizations / Graphs – 6

The dashboard combines multiple visualizations to provide a clear overview of EV charge and range analysis

6	Story Design	No of Visualizations / Graphs -4

Story of Electric Cars in India

Tata	BMW	BYD	Hyundai
Audi	Jaguar		Porsche
	MG		

Count of Car
0 ———— 3

Story of Electric Cars in India

Car

Car		PriceRange(Lakhs)
Audi E-Tron		
Audi E-Tron GT		
BMW iX		
BYD E6		
Hyundai Kona Electric		
Jaguar I-Pace		
Mercedes-Benz EQC		
MG ZS EV		
Porsche Taycan		
Tata Nexon EV		
Tata Nexon EV Max		
Tata Tigor EV		

PriceRange(Lakhs): 0 20 40 60 80 100 120 140 160 180

Car (legend):
- Audi E-Tron
- Audi E-Tron GT
- BMW iX
- BYD E6
- Hyundai Kona El..
- Jaguar I-Pace
- Mercedes-Benz ..
- MG ZS EV
- Porsche Taycan
- Tata Nexon EV
- Tata Nexon EV ..
- Tata Tigor EV
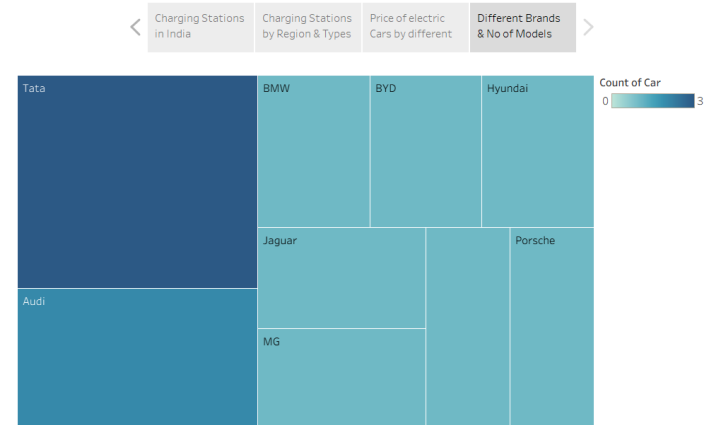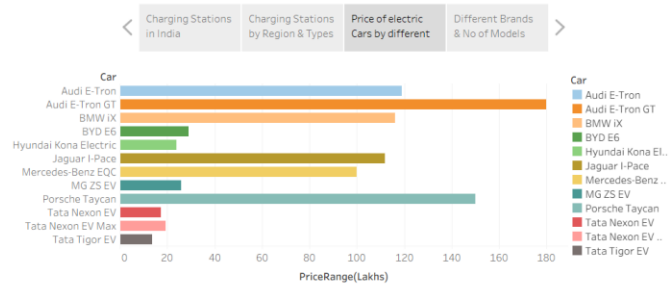
A Tableau story was created to present insights in a step-by-step manner. It includes range overview, charging analysis, station distribution, and key observations.