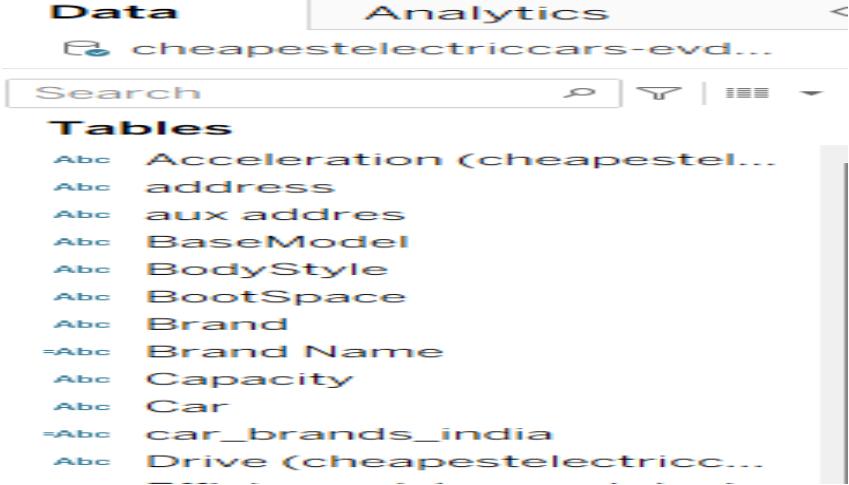
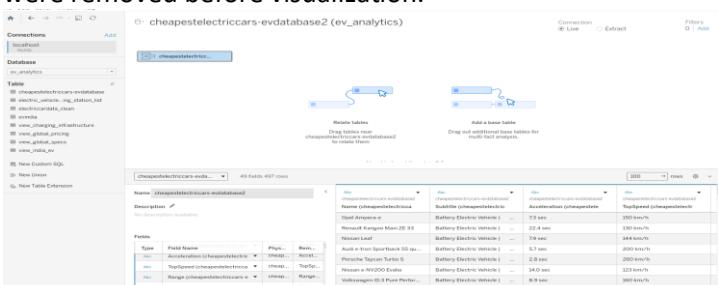
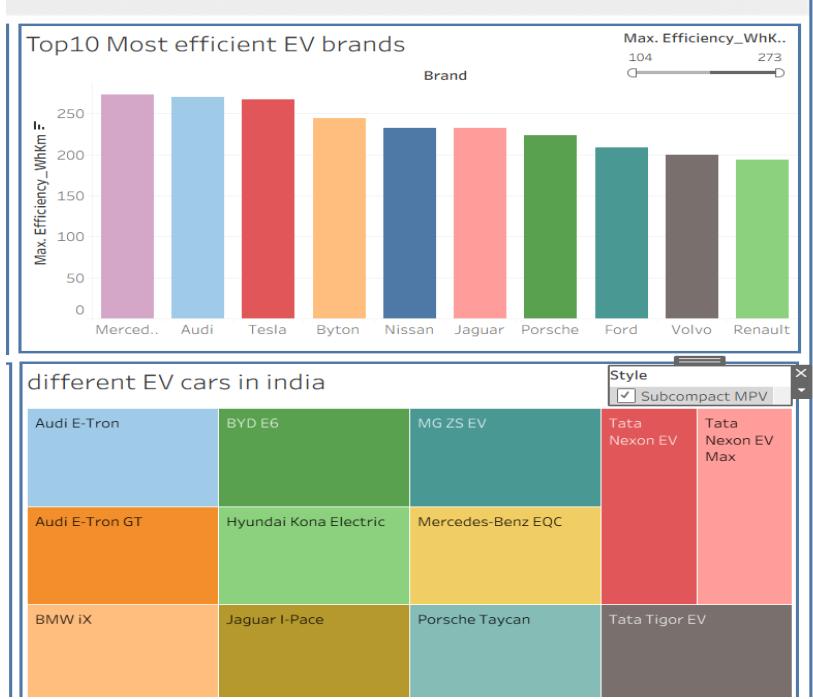
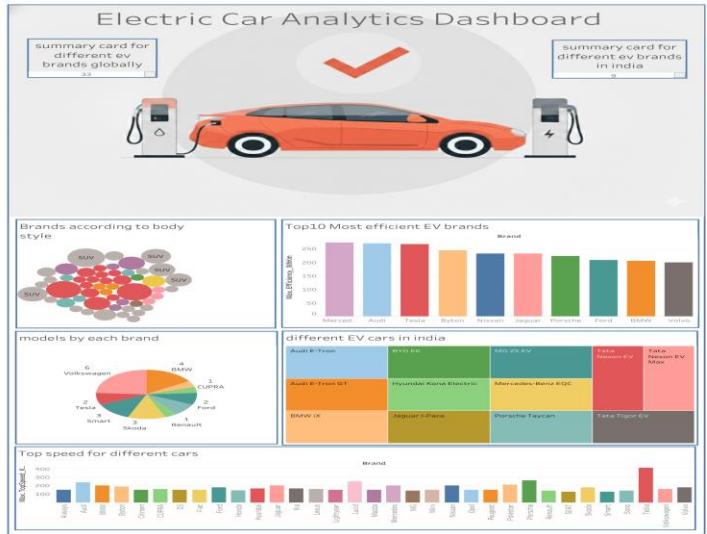


Project Development Phase
Performance Test

Date	12 February 2026
Team ID	LTVIP2026TMIDS53912
Project Name	Visualization tool for electric vehicle charge and range analysis.
Maximum Marks	

Model Performance Testing:

S.No.	Parameter	Screenshot / Values
1.	Data Rendered	<p>The EV dataset was successfully rendered in Tableau Desktop. All fields including vehicle type, charging time, range, state, and price were loaded correctly without errors.</p> 
2.	Data Preprocessing	<p>Data preprocessing was performed by handling missing values, removing duplicate records, correcting data types, and creating calculated fields. Units were standardized and unnecessary columns were removed before visualization.</p> 

3.	Utilization of Filters	<p>Filters such as Style, Vehicle Type, Charging Type, and Range were applied to enable dynamic interaction in the dashboard.</p>  <p>The dashboard displays two main sections:</p> <ul style="list-style-type: none"> Top10 Most efficient EV brands: A bar chart showing Max Efficiency (Wh/km) for various brands. The y-axis ranges from 0 to 250. The brands listed are Mercedes, Audi, Tesla, Byton, Nissan, Jaguar, Porsche, Ford, Volvo, and Renault. The chart includes a legend for Max. Efficiency_WhK.. different EV cars in india: A grid of 8 car models. A filter sidebar on the right shows 'Style' selected with 'Subcompact MPV' checked. The models are: Audi E-Tron, BYD E6, MG ZS EV, Tata Nexon EV, Audi E-Tron GT, Hyundai Kona Electric, Mercedes-Benz EQC, Tata Nexon EV Max, BMW iX, Jaguar I-Pace, Porsche Taycan, and Tata Tigor EV.
4.	Calculation fields Used	$\text{AVG}([\text{Range}])$ $\text{COUNT}([\text{Vehicle Type}])$
5.	Dashboard design	<p>No of Visualizations / Graphs – 5</p>  <p>The dashboard features five distinct visualizations:</p> <ul style="list-style-type: none"> summary card for different ev brands globally: Shows a large orange car icon with a checkmark. summary card for different ev brands in india: Shows a small orange car icon with a checkmark. Brands according to body style: A bubble chart where bubbles represent different car body styles like SUV, CUV, Sedan, Hatchback, etc., with their sizes corresponding to popularity. Top10 Most efficient EV brands: A bar chart showing Max Efficiency (Wh/km) for various brands. The y-axis ranges from 0 to 400. The brands listed are Audi, BYD, Tesla, Byton, Nissan, Jaguar, Porsche, Ford, Volvo, and Renault. The chart includes a legend for Max. Efficiency_WhK.. models by each brand: A pie chart showing the distribution of different car models across various brands. different EV cars in india: A grid of 8 car models: Audi E-Tron, BYD E6, MG ZS EV, Tata Nexon EV, Audi E-Tron GT, Hyundai Kona Electric, Mercedes-Benz EQC, Tata Nexon EV Max, BMW iX, Jaguar I-Pace, Porsche Taycan, and Tata Tigor EV. Top speed for different cars: A horizontal bar chart showing the top speed (km/h) for various car models. The y-axis ranges from 0 to 4000. The models listed are Alfa Romeo, Fiat, BMW, Mini, Opel, Citroen, DS, Peugeot, Toyota, Honda, Mitsubishi, Suzuki, Fiat, Ford, Volkswagen, Skoda, Audi, Mercedes-Benz, and Volvo.

6	Story Design	<p>No of Visualizations / Graphs – 4</p> <p>Story of Electric Cars in India</p> <p> < Charging Stations in India Charging Stations by Region & Type Price of Electric Cars by different > Different Brands & No. of Models </p> <p>The visualization is a treemap chart titled "Story of Electric Cars in India". It shows the relative count of electric cars by different brands. The brands and their approximate counts based on the color scale are:</p> <table border="1"> <thead> <tr> <th>Brand</th> <th>Approximate Count (Color Scale)</th> </tr> </thead> <tbody> <tr> <td>Tata</td> <td>Dark Blue (High Count)</td> </tr> <tr> <td>Audi</td> <td>Dark Blue (High Count)</td> </tr> <tr> <td>BMW</td> <td>Medium Blue (Medium Count)</td> </tr> <tr> <td>BYD</td> <td>Medium Blue (Medium Count)</td> </tr> <tr> <td>Hyundai</td> <td>Medium Blue (Medium Count)</td> </tr> <tr> <td>Jaguar</td> <td>Light Blue (Low Count)</td> </tr> <tr> <td>MG</td> <td>Light Blue (Low Count)</td> </tr> <tr> <td>Porsche</td> <td>Light Blue (Low Count)</td> </tr> </tbody> </table> <p>Count of Car 0 [Color Scale] 3</p>	Brand	Approximate Count (Color Scale)	Tata	Dark Blue (High Count)	Audi	Dark Blue (High Count)	BMW	Medium Blue (Medium Count)	BYD	Medium Blue (Medium Count)	Hyundai	Medium Blue (Medium Count)	Jaguar	Light Blue (Low Count)	MG	Light Blue (Low Count)	Porsche	Light Blue (Low Count)
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