

Project Report

Visualization tool for electric vehicle charge and range analysis.

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

1. INTRODUCTION

1.1 Project Overview

The Electric Car Analytics Dashboard project focuses on analysing global and Indian electric vehicle data to identify trends in brands, efficiency, pricing, body styles, and performance. The project uses data preprocessing techniques and Tableau visualizations to provide meaningful insights through interactive dashboards and stories.

1.2 Purpose

The purpose of this project is to analyse and visualize electric vehicle data to support better understanding of market trends, brand performance, and efficiency comparisons. It helps users make data-driven decisions through interactive filters, dashboards, and visual storytelling.

2. IDEATION PHASE

2.1 Problem Statement

The Electric Car Analytics project addresses challenges faced by first-time EV buyers and EV infrastructure investors in India. Buyers struggle with unclear real-world range data and scattered charging station information, leading to range anxiety and confusion. At the same time, investors lack integrated insights into EV sales trends and charging infrastructure gaps. This creates uncertainty in decision-making and highlights the need for a unified, data-driven analytical dashboard.

Customer Problem Statement Template:

Problem Statement – 1: **THE CAR BUYER**



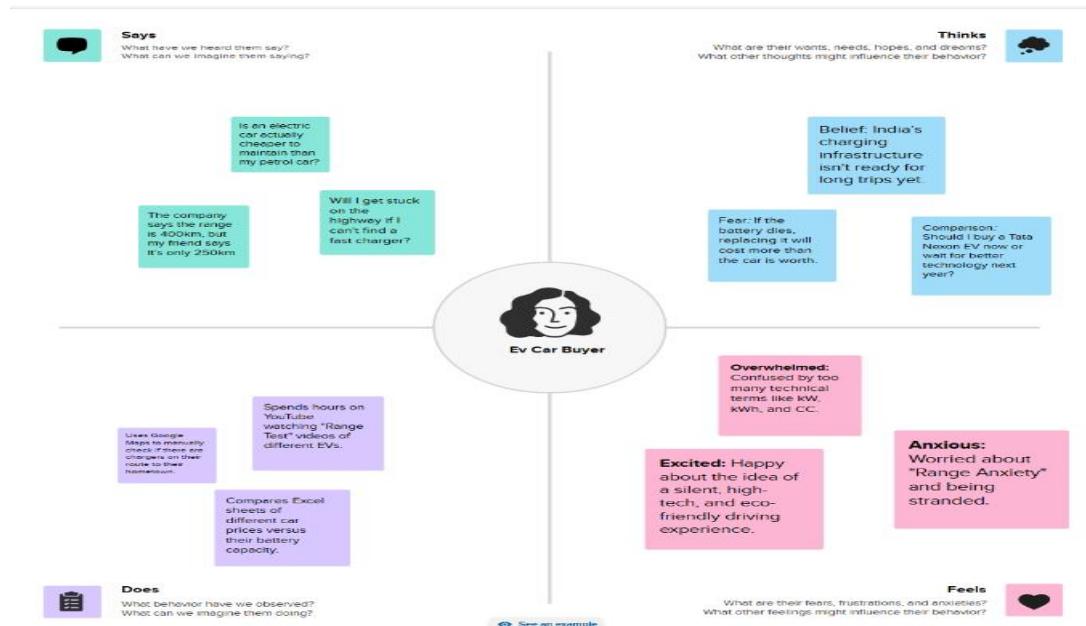
Problem Statement – 2: THE BUSINESS PLANNER



Problem Statement (PS)	I am (Customer)	I'm trying to	But	Because	Which makes me feel
The Car Buyer	A first-time EV buyer in India.	Buy an electric car that won't run out of charge on long trips.	I can't find clear data on real-world mileage and charging spots.	Information is scattered and technical specs are confusing.	Stressed about "Range Anxiety" and afraid of getting stranded.
The Business Planner	An EV charging station investor.	Find the best spots in India to build new fast-chargers.	I don't know where the "charging gaps" are compared to car sales.	Sales data and charger locations are in separate.	Worried about wasting money on the wrong locations.

2.2 Empathy Map Canvas

The Mind of an EV Enthusiast



2.3 Brainstorming

Step-1: Team Gathering, Collaboration and Select the Problem Statements

Brainstorm & idea prioritization

Use this template in your own brainstorming sessions so your team can unleash their imagination and start generating ideas even if you're not sitting in the same room.

Before you collaborate

A simple list of preparation gives a strong way with your session. Here's what you need to do to get started:

- Team gathering: Make sure all team members will participate in the session and send an invite with relevant information or pre-work sheets.
- Set the goal: Think about the problem you'll be focusing on solving in the session and the outcome.
- Learn how to use the facilitation tools: Use the facilitation toolpower to make a happy and productive session.

Define your problem statement

What problems are you trying to solve? Frame your problem as a *How might we* statement. This will be the focus of your session.

Key rules of brainstorming

- Stay in scope.
- Encourage wild ideas.
- Everyone participates.
- Listen to others.
- Be open-minded.

Step-2: Brainstorm, Idea Listing and Grouping

Brainstorm

Write down any ideas that come to mind that address your problem statement.

Group ideas

Take turns sharing your ideas while clustering similar or related notes as you go. Once all sticky notes have been grouped, give each cluster a sentence-like label. If a cluster is bigger than six sticky notes, try and break it up into smaller sub-groups.

Legend for sticky notes:

- Yellow: You can either add more notes to this cluster or start a new one.
- Blue: Ideas that are related to the main idea.
- Green: Ideas that are very important.
- Red: Ideas that are not related to the main idea.

Person 1 Ideas:

- Create a MySQL database linking range data with customer data for a "Safety Net" score.
- Automate data collection to handle data from various EV infrastructure charging station links.

Person 2 Ideas:

- Design a dashboard for users to monitor their driving behavior to identify high-value routes.
- Create an interactive map showing EV charging stations and nearby public transit hubs.

Person 3 Ideas:

- Implement a static dashboard displaying charging station locations.
- Design a map visualization that differentiates between "Charging" and "Safety Net" scores.

Person 4 Ideas:

- Add a regional filter allowing users to see infrastructure specific to their home state.
- Design a "Range" vs "Safety Net" chart showing the impact of AC usage impact.

Person 5 Ideas:

- Build a responsive dashboard that hosts the Tableau visualizations in a single web view.

Cluster 1: Geographic & Regional Infrastructure Analysis

- Clear and automatic state-wise charging station datasets.
- Create a dashboard showing EV charging station density.
- Map end-to-end distances between East and West coasts.
- Add filters for regional/home state selection.
- Label:** We will map regional data to show infrastructure gaps and charger types across India.

Cluster 2: Performance & Value

Ideas:

- Tableau scatter plots for EV Price vs. Range.
- Interactive bar charts showing brand growth in India.
- "Top 5 Buys" based on user reviews.
- Charts showing impact of speed and AC usage times.
- Comparison col for Home vs. Public charging times.
- Label:** We will use interactive charts to help buyers compare EV value and performance.

Cluster 3: Data Strategy & Platform Architecture

Ideas:

- MySQL database linking range data for "Safety Net" scores.
- Responsive dashboards to host all dashboards.
- Label:** We will build a MySQL and Bootstrap database for a seamless user experience.

Step-3: Idea Prioritization

Prioritize

What ideas should all be on the radar page about which is most important moving forward. Place your ideas on this grid to determine which ideas are important and which are feasible.

Importance

If you can't do this idea, don't do it. If you can do this idea, do it. If you can do this idea, do it quickly.

Feasibility

Are you able to do this idea right now? If yes, do it. If no, prioritize it for later.

Grid:

Importance	Feasibility	
+	+	Cluster 1: Infrastructure Heatmaps
-	+	Cluster 2: Performance & Value Analysis
+	-	Cluster 3: Web Platform (Bootstrap)
-	-	

Radar Chart:

Prioritize ideas based on their importance, which ideas are feasible, and their potential impact.

3. REQUIREMENT ANALYSIS

3.1 Customer Journey Map

The customer journey map outlines the experience of EV buyers and business planners while interacting with electric vehicle data. It identifies pain points such as range anxiety, scattered charging information, and lack of infrastructure insights. The journey highlights decision-making challenges and information gaps. This analysis helps define the exact needs of users. It ensures the dashboard is built to solve real-world problems effectively.



3.2 Solution Requirement

The solution requires an interactive dashboard that integrates EV sales, efficiency, pricing, and charging station data. It must provide clear visualizations and filtering options for easy analysis. The system should support comparative insights between brands and regions. Data accuracy and preprocessing are essential. The solution must be user-friendly and visually intuitive.

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	View Website	Access Home, About, Team & Contact sections
FR-2	View EV Dashboard	Load EV Charging & Range Tableau Dashboard Display interactive charts Responsive dashboard view
FR-3	View EV Story	Load Tableau Story Navigate between story tabs
FR-4	Contact Form	Submit user details Validate required fields Display submission confirmation
FR-5	Admin Data Management	Upload EV dataset to Tableau Update dashboard visuals Publish dashboard

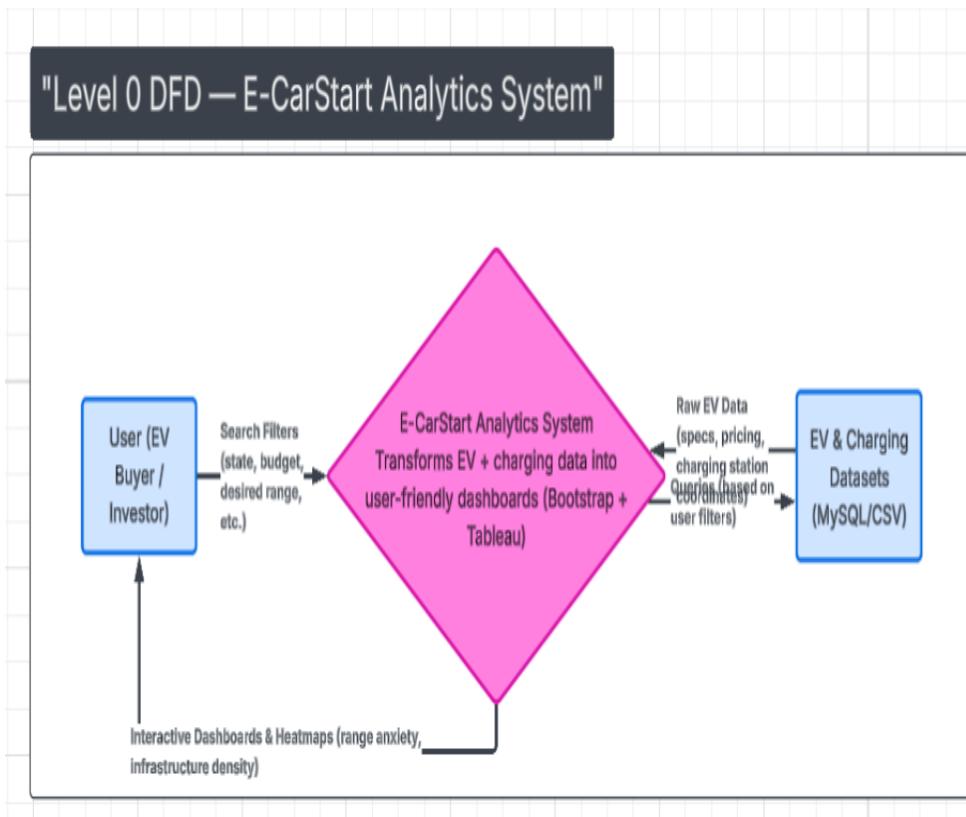
Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

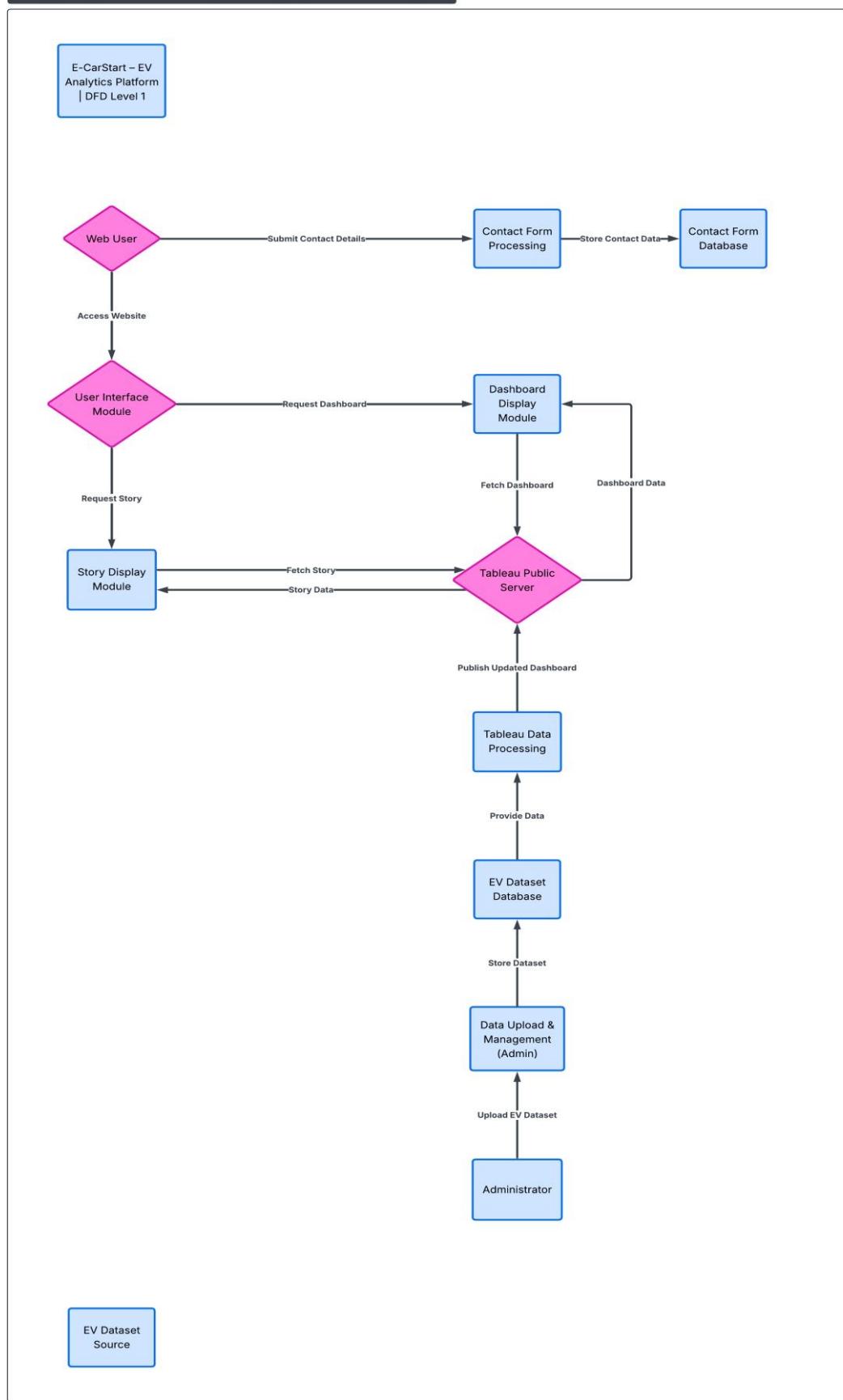
FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The website should be user-friendly, easy to navigate, and visually clear with proper section alignment.
NFR-2	Security	User contact data must be protected and not publicly exposed. Tableau dashboards should be securely embedded.
NFR-3	Reliability	The system should consistently load dashboards and story without failure.
NFR-4	Performance	The website should load within 3–5 seconds and dashboard rendering should be responsive.
NFR-5	Availability	The system should be available 24/7 through web browsers.
NFR-6	Scalability	The system should support addition of new datasets and future dashboard extensions.

3.3 Data Flow Diagram

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and where data is stored.



E-CarStart – EV Analytics Platform DFD Level 1



3.4 Technology Stack

The project uses Excel/CSV datasets for data storage. MySQL is used for database management and structured data storage. Tableau Desktop is used for data visualization and dashboard creation. Basic data preprocessing techniques are applied before visualization. These tools together ensure efficient data handling and presentation.

Table-1: Components & Technologies:

S. No	Component	Description	Technology
1.	User Interface	Web-based interface where users view EV dashboard, story and submit contact form	HTML, CSS, JavaScript, Bootstrap 5
2.	Application Logic – Dashboard Integration	Handles embedding and rendering of Tableau Dashboard inside the website.	JavaScript, Tableau Embed API
3.	Application Logic – Story Integration	Embeds Tableau Story and manages responsive display	JavaScript, Tableau Public
4.	Dataset Storage	EV dataset stored and processed within Tableau environment	Tableau Data Extract (TDE)
5.	File Storage	EV dataset files stored locally before upload to Tableau	Tableau Data Extract (TDE)
6.	Tableau Public API	Used to embed and display dashboard and story in website	Tableau Public Embed API
7.	Infrastructure (Web Hosting)	Website hosted on web server, dashboards hosted on Tableau Public Cloud:	Local Hosting / GitHub Pages / Render, Tableau Public Cloud

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Website built using open-source front-end frameworks	Bootstrap 5, HTML5, CSS3
2.	Security Implementations	Secure embedding of Tableau dashboards and form validation	HTTPS Protocol, Input Validation
3.	Scalable Architecture	Web-based modular structure allows addition of new dashboards and datasets	Modular Web Architecture, Cloud Hosting
4.	Availability	Dashboard available 24/7 via Tableau Public cloud	Tableau Public Cloud
5.	Performance	Optimized responsive UI and embedded dashboard loading	Bootstrap Grid System, Optimized Tableau Embed

4. PROJECT DESIGN

4.1 Problem Solution Fit

The dashboard directly addresses range anxiety and infrastructure planning issues. It combines EV sales data with charging station insights. Buyers can compare efficiency and range, while investors can identify infrastructure gaps. The solution aligns with user pain points identified in requirement analysis. It ensures informed, data-driven decision-making.

1. CUSTOMER SEGMENT(S)	CS	6. CUSTOMER CONSTRAINTS	CC	5. AVAILABLE SOLUTIONS	AS
Primary Segment: First-time EV buyers in metropolitan and tier-2 cities in India. Working professionals and middle-class families exploring EV purchase. Environment-conscious consumers. Secondary Segment: Infrastructure investors. EV charging network planners. Government policymakers. EV market researchers.		Limited technical knowledge about EVs. Difficulty interpreting raw data. Lack of centralized EV data source. Time constraints for deep research. Budget concerns for vehicle purchase.		EV brand websites. Government EV policy reports (PDF). YouTube reviews. EV blogs. News articles.	Explore AS, differentiate
2. JOBS-TO-BE-DONE / PROBLEMS	J&P	9. PROBLEM ROOT CAUSE	RC	7. BEHAVIOUR	BE
For EV Buyers: Understand EV range and battery performance. Check charging availability. Compare brands and models. Reduce range anxiety before purchasing. For Investors: Identify regional EV growth patterns. Detect charging infrastructure gaps. Analyze adoption trends.		Lack of centralized EV analytics platform in India. Fragmented data across multiple sources. Poor visualization of charging and range data. Limited data-driven decision tools for EV buyers. Inadequate infrastructure planning visibility.		Online Behaviour: Searching "Best EV in India" Watching YouTube EV reviews Comparing models on Google Reading EV news articles Investor Behaviour: Downloading industry reports Reviewing government EV data Studying regional infrastructure trends	Focus on J&P, tap into BE, un-differentiate RC
3. TRIGGERS	TR	10. YOUR SOLUTION	SL	8. CHANNELS of BEHAVIOUR	CH
Rising fuel prices. Government EV subsidies. Climate change awareness. Social influence (neighbors switching to EVs). News about EV growth in India. Planning to buy a new vehicle.		E-CarStart is a web-based EV analytics platform that: Provides interactive EV charging & range dashboard. Visualizes EV adoption trends in India. Centralizes EV data into one platform. Helps first-time buyers make informed decisions. Assists investors in identifying charging infrastructure gaps. Reduces confusion and range anxiety through data visualization.		Online: Google Search YouTube EV blogs Government websites Social media (LinkedIn, Twitter) Offline: Visiting EV showrooms Talking to dealers Discussions with friends/family Industry seminars	Extract online & offline CH of BE
4. EMOTIONS: BEFORE / AFTER	EM				
Before Using E-CarStart: Confusion about EV performance. Fear of running out of charge. After Using E-CarStart: Confidence in EV purchase decision. Relief about charging & range.					

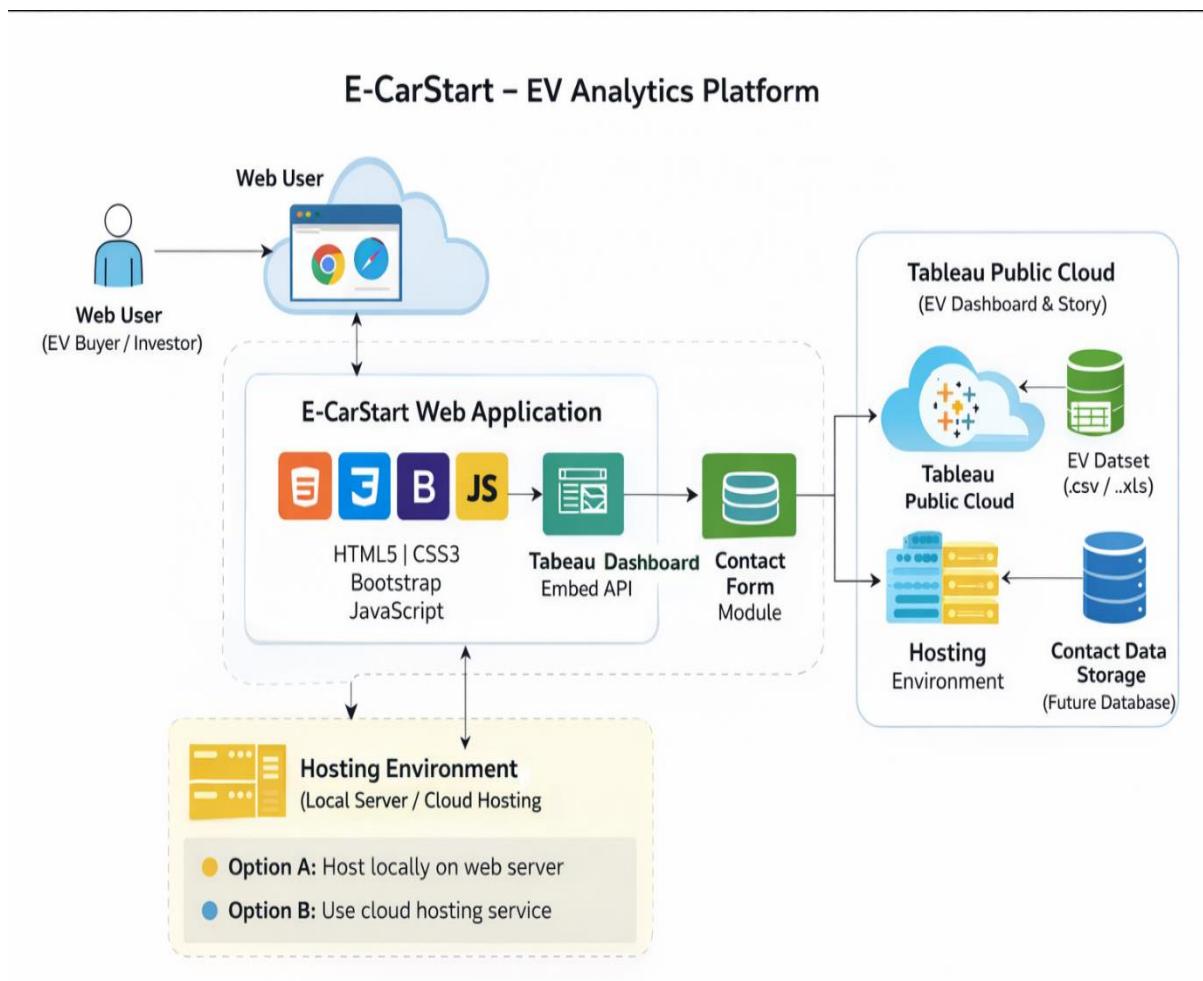
4.2 Proposed Solution

The proposed solution is an Electric Car Analytics Dashboard with multiple visualizations. It includes brand comparison charts, efficiency rankings, body style analysis, and summary cards. Interactive filters enhance user exploration. The dashboard is designed for clarity and simplicity. It transforms raw data into actionable insights.

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	First-time EV buyers in India lack centralized and reliable data about charging infrastructure and vehicle range, leading to confusion and range anxiety. Infrastructure investors also struggle to identify regional charging gaps due to fragmented information sources.
2.	Idea / Solution description	E-CarStart is a web-based EV analytics platform that provides interactive dashboards and visual stories about EV charging, range, and adoption trends. It centralizes data into an easy-to-understand format using Tableau and a responsive web interface.
3.	Novelty / Uniqueness	The platform combines EV charging, range, and market adoption insights into one interactive system focused on the Indian market. Unlike static reports or blogs, it offers real-time visual comparison and centralized analytics.
4.	Social Impact / Customer Satisfaction	E-CarStart promotes informed EV adoption, reducing range anxiety and increasing customer confidence. It also supports sustainable mobility by providing transparency in EV infrastructure growth.
5.	Business Model (Revenue Model)	The platform can adopt a freemium model with basic dashboards free and premium analytics for investors. Additional revenue can come from partnerships, advertisements, and data insight reports.
6.	Scalability of the Solution	The web-based modular architecture allows easy addition of new datasets and dashboards. It can scale to include real-time APIs, more regions, and advanced analytics features in the future.

4.3 Solution Architecture

The architecture follows a simple data pipeline structure. Raw EV datasets are collected and cleaned. Cleaned data is stored in a database. Tableau connects to the database to create visual dashboards. Users interact with the dashboard to generate insights.



5. PROJECT PLANNING & SCHEDULING

5.1 Project Planning

The project was planned in stages: data collection, preprocessing, database integration, visualization, and testing. Each phase was executed sequentially. Timelines were set to ensure proper completion of tasks. Dashboard design and refinement were done iteratively. Proper planning ensured smooth execution.

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Data Collection	USN-1	Download EV dataset from reliable source	3	High	P Jeevan
Sprint-1	Data Understanding	USN-2	Analyse and understand dataset attributes	3	High	K Dinesh
Sprint-1	Database Setup	USN-3	Import dataset into database	4	High	R Srikanth
Sprint-1	Tableau Connection	USN-4	Connect Tableau Desktop to database	4	High	N Akhila
Sprint-1	Data Preparation	USN-5	Clean and prepare dataset for visualization	6	High	M Manasa
Sprint-2	Data Visualization	USN-6	Create charts & EV analysis visuals	5	High	K Dinesh
Sprint-2	Dashboard Creation	USN-7	Design interactive dashboard	5	High	N Akhila
Sprint-2	Story Creation	USN-8	Create EV analytics story in Tableau	3	High	M Manasa
Sprint-2	Publishing	USN-9	Publish dashboard to Tableau Public	3	High	P Jeevan
Sprint-2	Website Integration	USN-10	Embed dashboard into website	4	High	R Srikanth
Sprint-3	Website Navigation	USN-11	Develop website sections	4	High	M Manasa
Sprint-3	Contact Form	USN-12	Implement form validation	4	High	R Srikanth
Sprint-3	Responsive Design	USN-13	Make website mobile responsive	5	Medium	K Dinesh
Sprint-3	Testing	USN-14	Cross-browser testing	3	Medium	P Jeevan
Sprint-3	Final Review	USN-15	Final deployment & bug fixing	4	High	All

Project Tracker, Velocity & Burndown Chart:

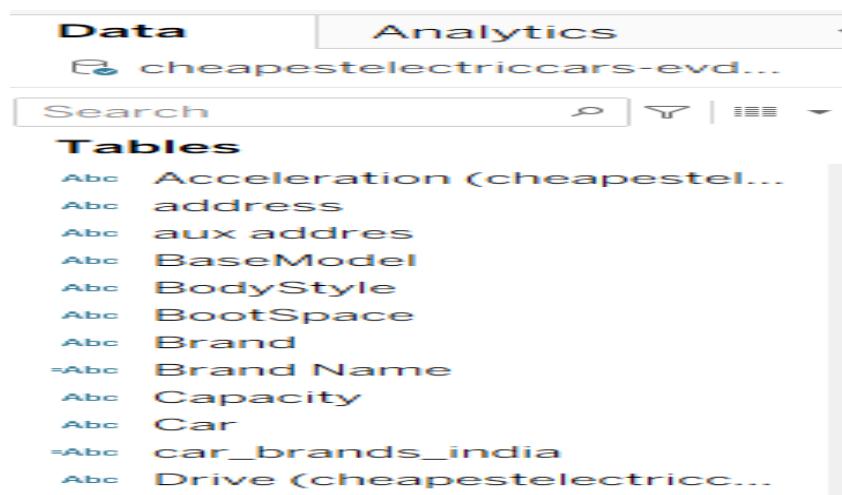
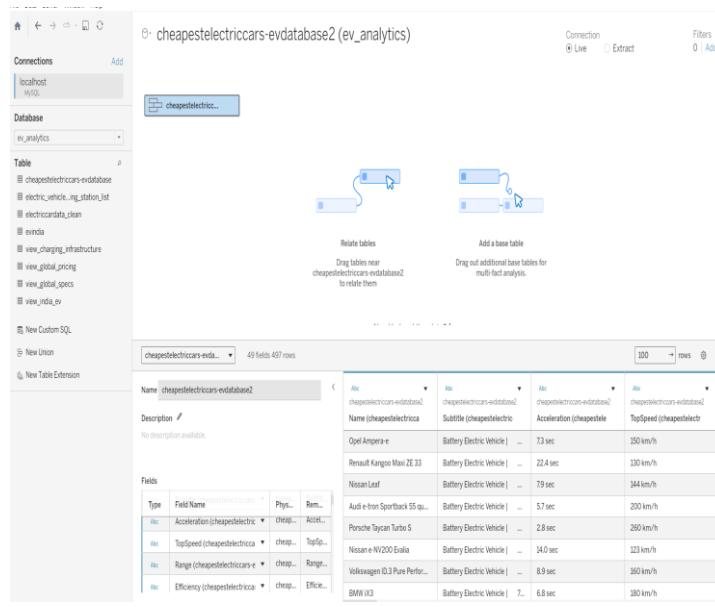
Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	7 Days	28 Jan 2026	03 Feb 2026	20	03 Feb 2026
Sprint-2	20	7 Days	04 Feb 2026	10 Feb 2026	20	10 Feb 2026
Sprint-3	20	7 Days	11 Feb 2026	14 Feb 2026	20	14 Feb 2026

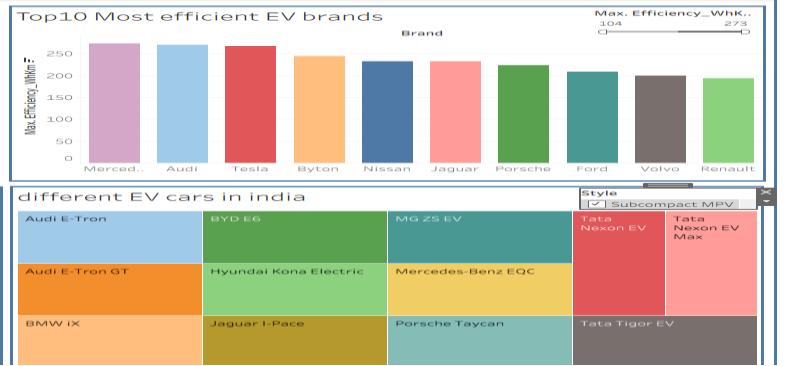
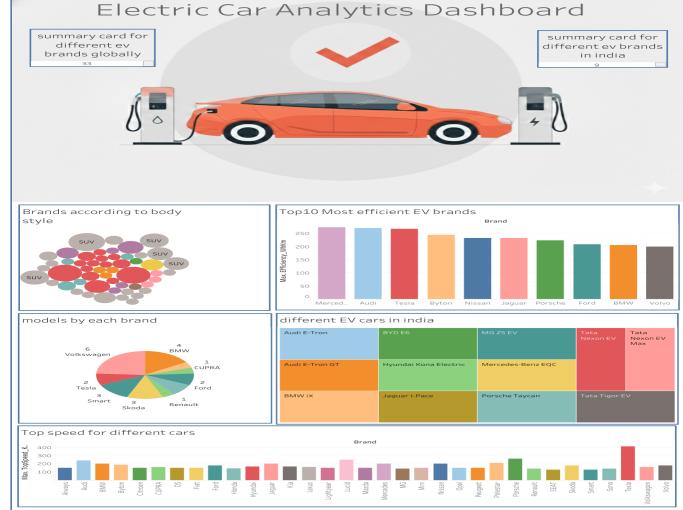
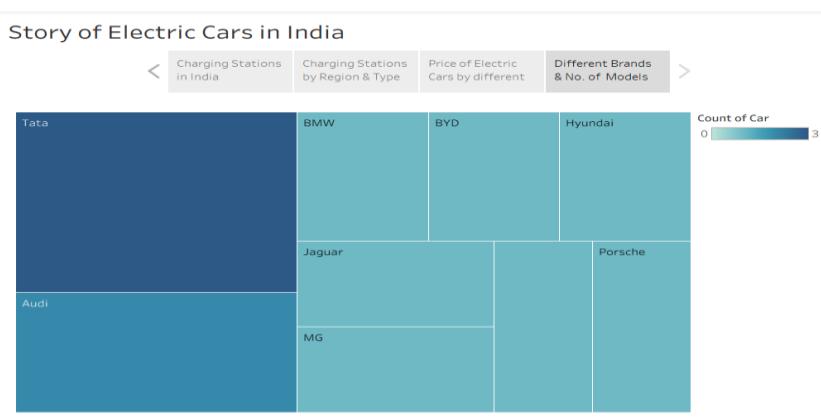
$$AV = \text{Sprint duration}/\text{velocity} = 20/7 = 2.85 \sim 3 \text{ story points per day}$$

6. FUNCTIONAL AND PERFORMANCE TESTING

6.1 Performance Testing

The dashboard was tested for responsiveness and accuracy. Filters and interactive features were validated. Data consistency between database and visualizations was checked. Performance was monitored for loading time and smooth interaction. The system performs efficiently for the given dataset size.

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>  <table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Field Name</th> <th>Phys. Type</th> <th>Rem.</th> <th>Format</th> </tr> </thead> <tbody> <tr> <td>Acceleration (cheapestelectric...)</td> <td>Measure</td> <td>Acceleration (cheapestelectric...)</td> <td>float</td> <td>Accl...</td> <td>100</td> </tr> <tr> <td>TopSpeed (cheapestelectric...)</td> <td>Measure</td> <td>TopSp...</td> <td>float</td> <td></td> <td>100</td> </tr> <tr> <td>Range (cheapestelectricars...)</td> <td>Measure</td> <td>Range...</td> <td>float</td> <td></td> <td>100</td> </tr> <tr> <td>Efficiency (cheapestelectric...)</td> <td>Measure</td> <td>Effici...</td> <td>float</td> <td></td> <td>100</td> </tr> </tbody> </table>	Name	Type	Field Name	Phys. Type	Rem.	Format	Acceleration (cheapestelectric...)	Measure	Acceleration (cheapestelectric...)	float	Accl...	100	TopSpeed (cheapestelectric...)	Measure	TopSp...	float		100	Range (cheapestelectricars...)	Measure	Range...	float		100	Efficiency (cheapestelectric...)	Measure	Effici...	float		100
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Acceleration (cheapestelectric...)	Measure	Acceleration (cheapestelectric...)	float	Accl...	100																											
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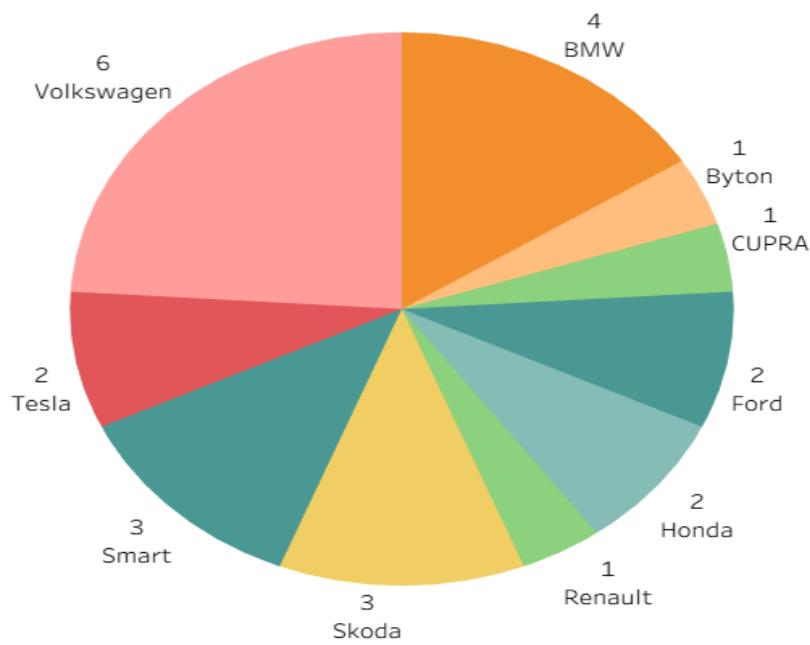
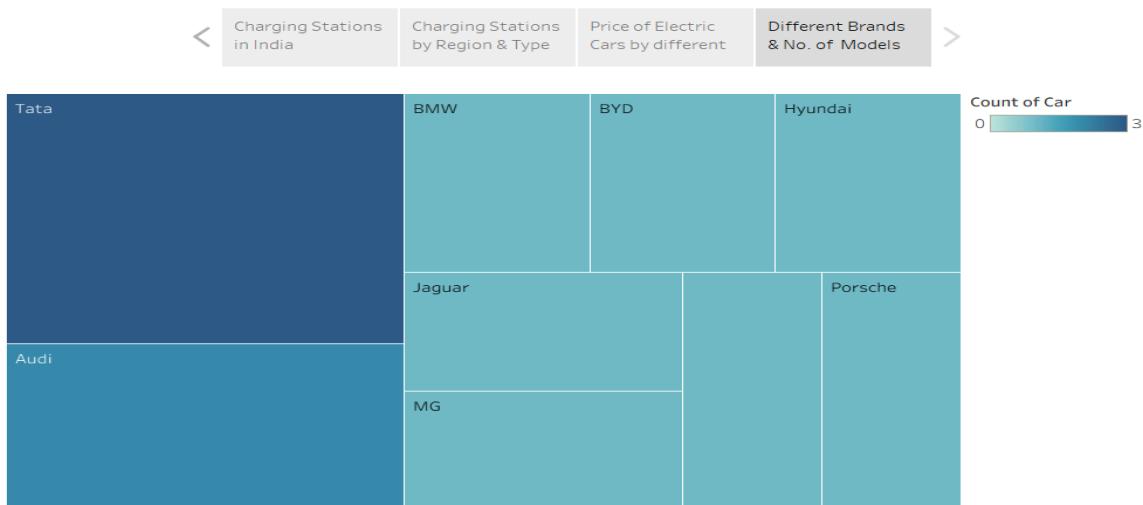
3.	Utilization of Filters	<p>Filters such as Style, Vehicle Type, Charging Type, and Range were applied to enable dynamic interaction in the dashboard.</p>  <p>The dashboard displays two main visualizations. The top section is a bar chart titled "Top10 Most efficient EV brands" showing Max.Efficiency_WkWh.. for various brands: Mercedes-Benz (~260), Audi (~255), Tesla (~250), Byton (~225), Nissan (~220), Jaguar (~215), Porsche (~210), Ford (~205), Volvo (~200), and Renault (~195). The bottom section is a grid titled "different EV cars in india" showing models from Audi, BYD, MG, Tata, 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. A filter for "Style" is applied to the grid.</p>
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 sections: 1) A summary card for different EV brands globally with a checkmark icon. 2) A summary card for different EV brands in India. 3) A bubble chart titled "Brands according to body style" showing various car models like SUV, Sedan, Hatchback, etc. 4) A bar chart titled "Top10 Most efficient EV brands" showing efficiency in Max.Efficiency_WkWh.. for brands like Mercedes-Benz (~260), Audi (~255), Tesla (~250), etc. 5) A grid titled "different EV cars in India" showing models from Audi, BYD, MG, Tata, 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.</p>
6.	Story Design	<p>No of Visualizations / Graphs – 4</p>  <p>The dashboard is titled "Story of Electric Cars in India" and includes navigation buttons for "Charging Stations in India", "Charging Stations by Region & Type", "Price of Electric Cars by different", and "Different Brands & No. of Models". The main visualization is a treemap showing the count of cars for various brands: Tata (~3000), BMW (~1500), BYD (~1500), Hyundai (~1500), Audi (~1000), Jaguar (~500), MG (~500), and Porsche (~500).</p>

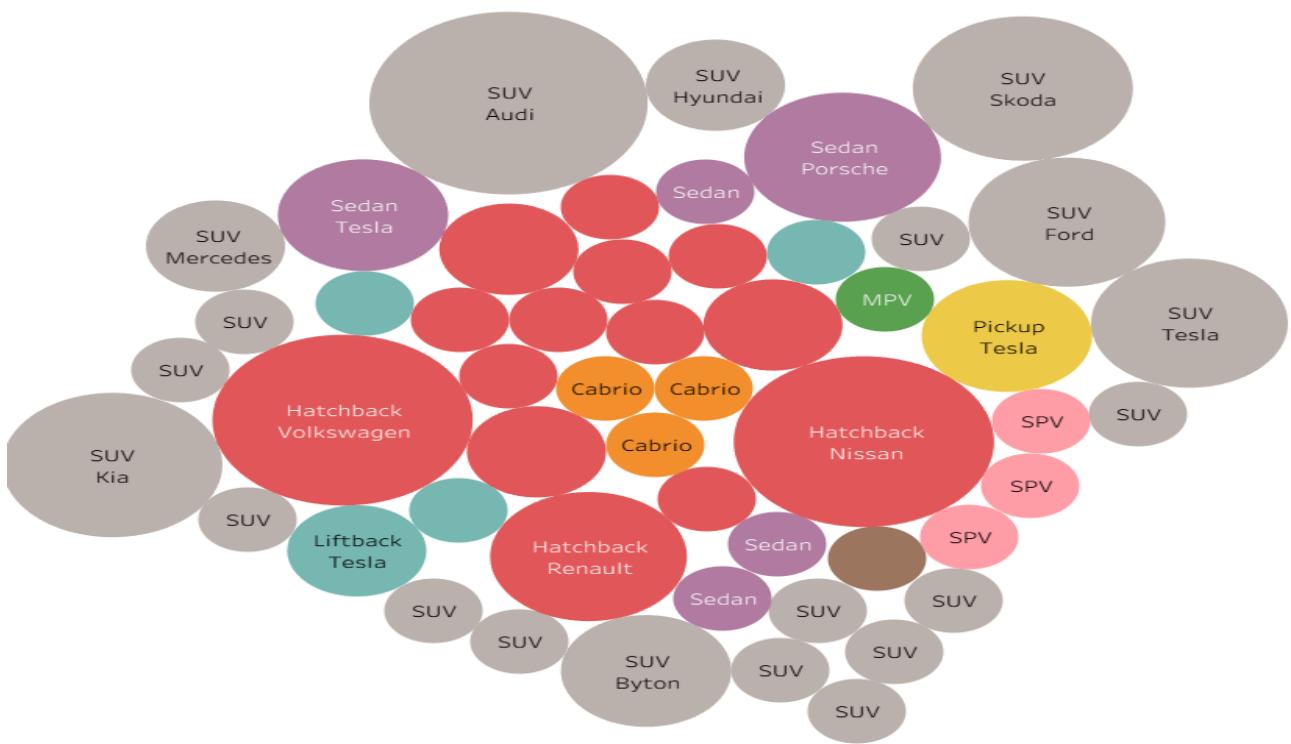
7. RESULTS

7.1 Output Screenshots

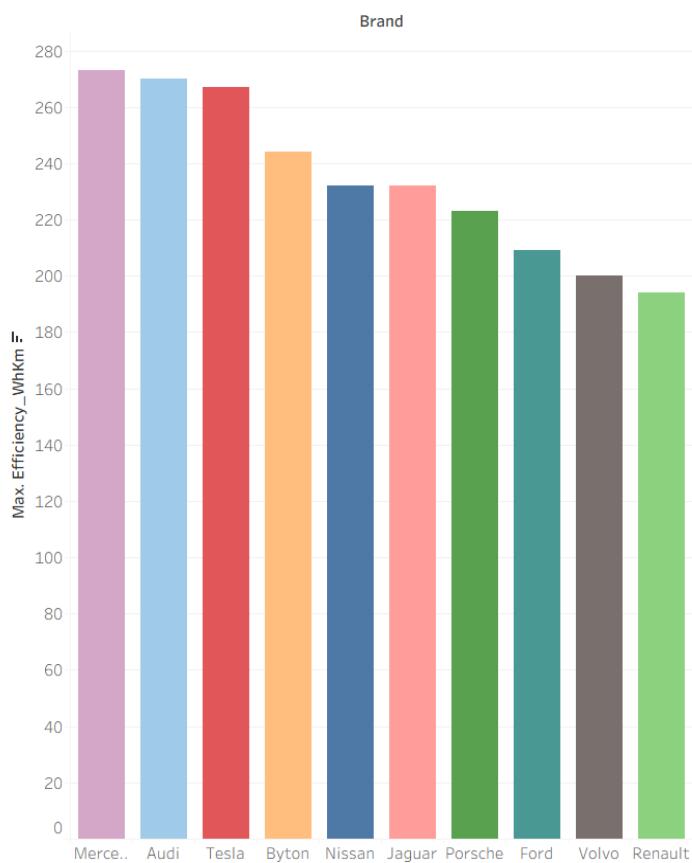
The final dashboard displays EV brand analysis, efficiency comparisons, and body style distribution. Summary cards highlight key metrics. Filters allow dynamic exploration of data. Visualizations provide clear and actionable insights. The results demonstrate successful implementation of the project objectives.

Story of Electric Cars in India

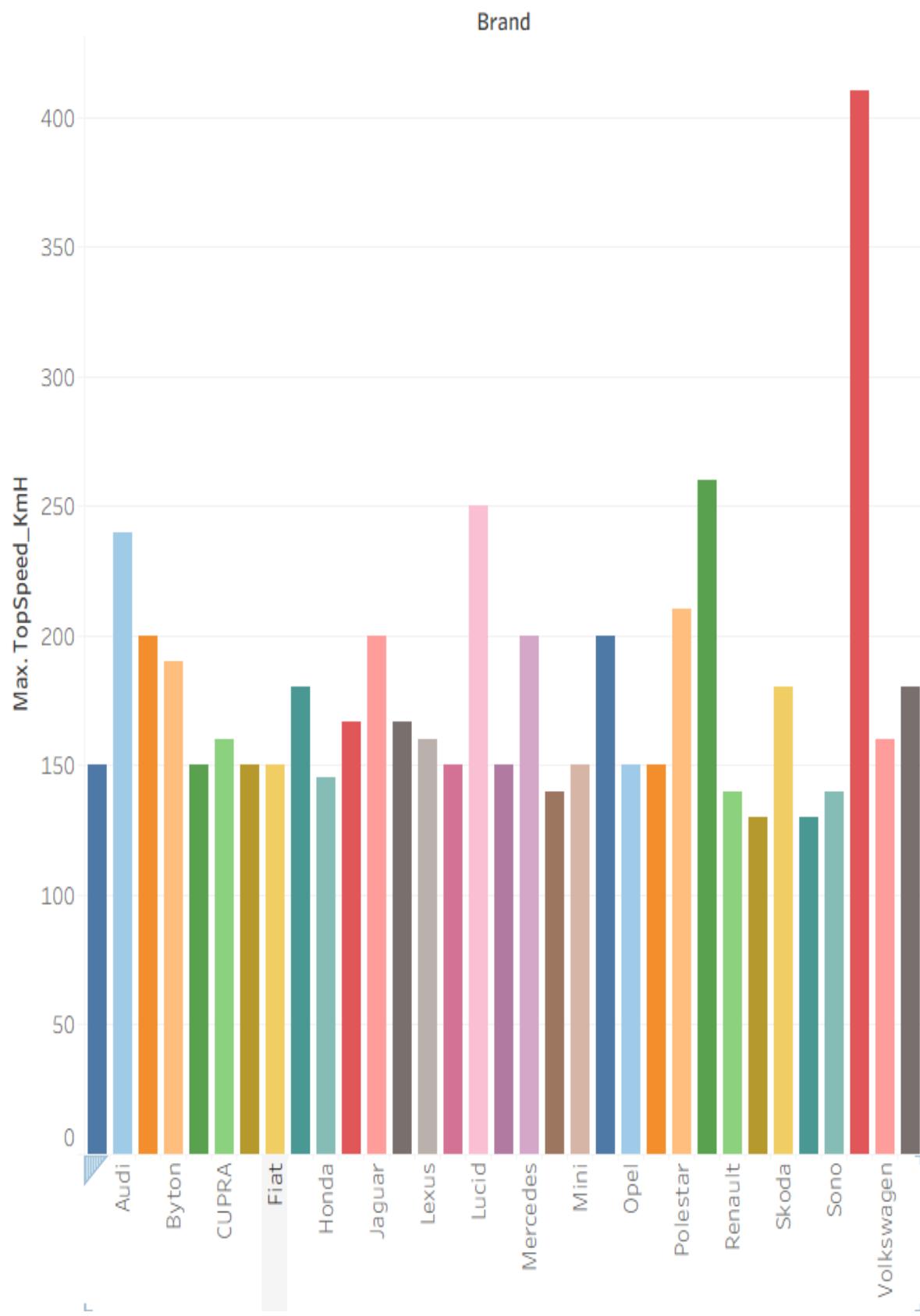


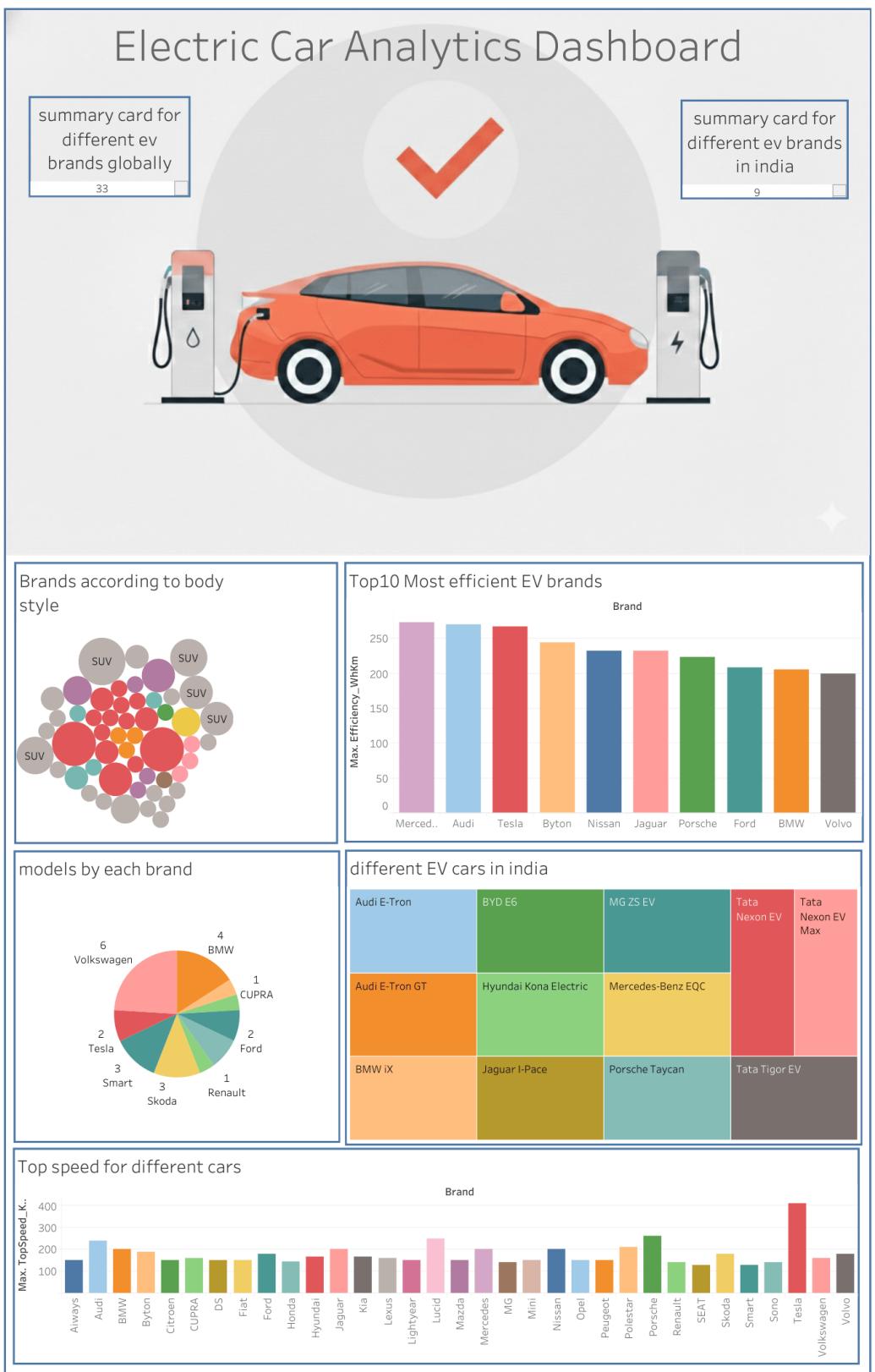


Top10 Most efficient EV brands



Top speed for different cars





 E-CarStart

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⚡ Next-Gen EV Analytics

We offer modern Analytics solutions for Electric Vehicles

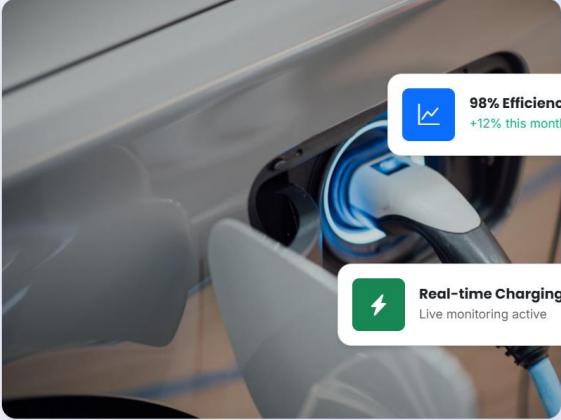
Transform your electric vehicle fleet management with real-time analytics, comprehensive charging insights, and predictive range optimization.

[Get Started →](#)

50K+
Vehicles Tracked

98%
Accuracy Rate

24/7
Live Monitoring

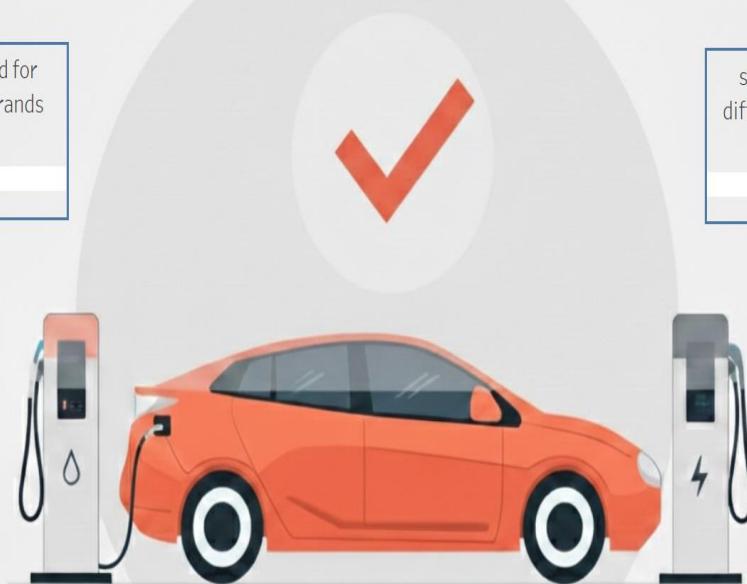


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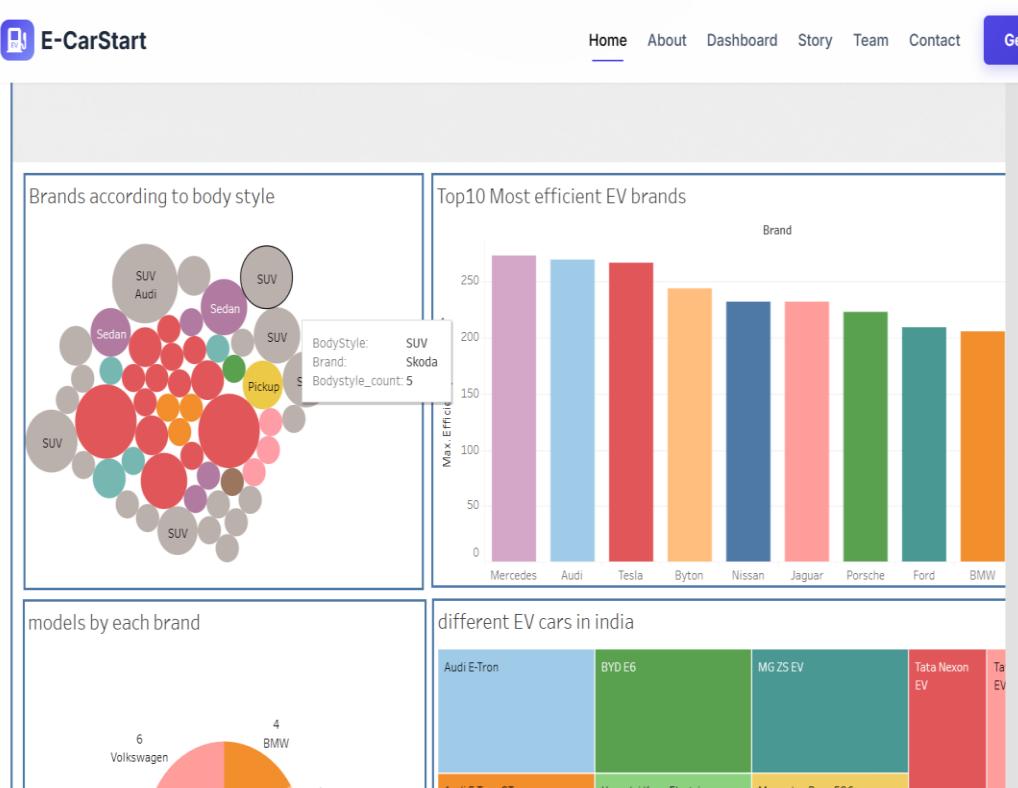
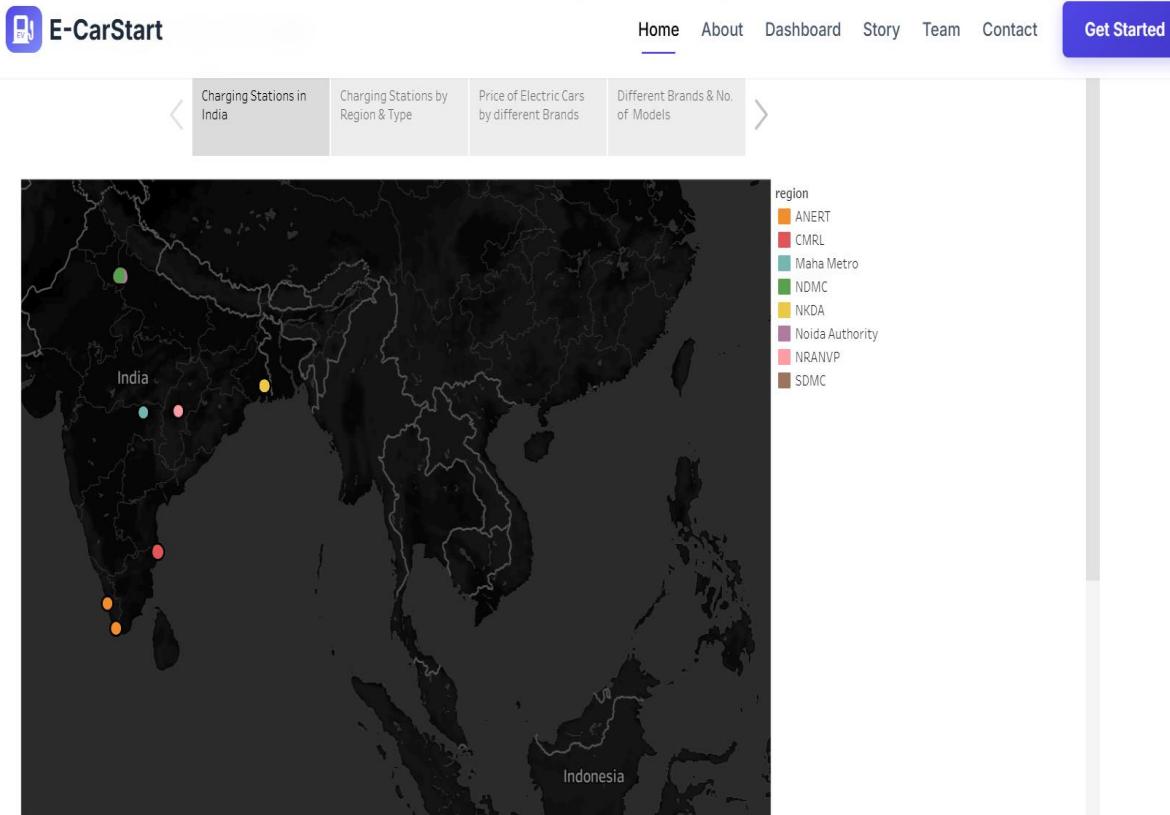
EV Charging & Range Dashboard

Electric Car Analytics Dashboard



summary card for different ev brands globally
33

summary card for different ev brands india
9



8. ADVANTAGES & DISADVANTAGES

Advantages:

The dashboard provides centralized EV insights. It simplifies complex technical data. Interactive filters improve usability. It supports data-driven decisions for buyers and investors.

Disadvantages:

The project depends on dataset accuracy. Real-time data updates are not included. Limited to available dataset scope. Large datasets may affect performance.

9. CONCLUSION

The Electric Car Analytics Dashboard successfully integrates EV data into meaningful visual insights. It addresses both consumer and investor challenges. The project demonstrates effective data preprocessing, database integration, and visualization techniques. It enhances decision-making through interactive dashboards. Overall, it meets the intended objectives efficiently.

10. FUTURE SCOPE

The project can be extended with real-time EV and charging station data. Predictive analytics can be added for future sales forecasting. Integration with live APIs can improve accuracy. Geographic map visualizations can enhance infrastructure planning. The system can also be deployed as a web-based analytics platform.

11. APPENDIX

Dataset Link:

<https://drive.google.com/drive/folders/1SNwXwNYZChq9XMDXov6h27F7kahHqVb3?usp=sharing>

Github Documentation Link:

<https://github.com/manasa1311/Visualization-tool--for-EVcars>

Github Project Link:

<https://github.com/manasa1311/E-Carstart-Analytics>

Project Demo Link:

<https://drive.google.com/file/d/1XRkd2hdjN9kOECps7lR4f6Pb8kqiES1-/view?usp=sharing>