

Visualization Tool For Electric Vehicle Charge And Range

1. INTRODUCTION

1.1 Project Overview

The "Electric Vehicle Charge and Range Analysis" project aims to analyze the availability, types, and distribution of electric vehicle (EV) charging stations using data visualization. As the world transitions toward sustainable transportation, understanding charging infrastructure is crucial for planning and adoption.

1.2 Purpose

The purpose of this project is to analyze the availability of electric vehicle (EV) charging stations, focusing on factors such as power type (AC/DC), charging range, and geographical distribution. This analysis can be conducted globally or within a specific region to gain insights into infrastructure readiness, accessibility, and support for EV adoption.

2. IDEATION PHASE

2.2 Problem Statement

Analysing different data from Multiple sources for Electric cars in India and Globally. We have 4 Different datasets we need to analyse the data and create Dashboard and story that can represent the data and show the Visuals for the data.

2.3 Empathy Map Canvas

The Empathy Map Canvas helps understand the perspective of EV users in India, focusing on their needs and challenges. Users often say they need accessible and fast-charging stations and worry about availability during long trips. They think about the reliability of infrastructure and whether EV adoption is practical. Their actions include using apps to locate stations and planning routes based on availability. Emotionally, they feel anxious, frustrated, or hopeful about EV use. By analyzing what EV users say, think, do, and feel, this project aims to provide insights that support better planning and improvement of EV charging infrastructure.

2.4 Brainstorming

To address the challenges in EV charging infrastructure, brainstorming focused on identifying key data points and user concerns. Ideas included analysing station density, power type (AC/DC), charging speed, and regional availability. We discussed integrating location-based data to visualize underserved areas and detect patterns in charging accessibility. Suggestions also included creating interactive dashboards, comparing urban vs rural infrastructure, and highlighting fast vs slow chargers. The team considered user behavior, such as charging preferences and travel habits, to guide analysis. These brainstorming efforts aim to develop data-driven insights that support improved planning, policy-making, and user experience in the EV ecosystem.

3. REQUIREMENT ANALYSIS

3.1 Customer Journey map

The Customer Journey Map outlines the steps an EV user in India takes when locating and using a charging station. It begins with awareness, where the user realizes the need to charge and searches for nearby stations. In the consideration phase, they compare station types, power options (AC/DC), and wait times. During the decision stage, they select a station and navigate to it. The experience phase involves the actual charging process, where reliability and speed matter most. Finally, in the feedback stage, users may share reviews or report issues. This journey highlights pain points our analysis aims to improve.

3.2 Solution Requirement

To effectively address the challenges in EV charging infrastructure, the solution must fulfill the following requirements:

1. Data Collection and Integration

- Gather comprehensive data on EV charging stations, including:
- Location (latitude, longitude)
- Availability status

- Power type (AC/DC)
- Charging range (slow, fast, ultra-fast)
- Network operator and region
- Accept data from public APIs, open datasets, or CSV files.

2. Data Processing and Analysis

- Clean, filter, and preprocess raw data for analysis.
- Identify patterns of availability, distribution gaps, and type mismatches.
- Perform regional comparison (e.g., rural vs urban, global vs country level).

3. Visualization Dashboard

- Create an interactive dashboard showing:
- Charging station locations on a map
- Filter options (by power type, city, availability, etc.)
- Charts to visualize station density, types, and usage trends
- Ensure dashboard is user-friendly and responsive.

4. User-Centric Insights

- Provide region-wise summaries of station accessibility.
- Highlight underserved areas needing infrastructure development.
- Suggest potential improvements or expansions based on data trends.

5. Technology Requirements

- Use appropriate tools and technologies such as:
- Python or JavaScript for data handling
- Plotly, Dash, or Power BI for visualization
- HTML/CSS/JS or frameworks like React (if building a website interface)

6. Scalability and Flexibility

- Solution should be scalable for future data updates.
- Should allow filtering or switching between global and regional views.

3.3 Technology Stack

SQL: For querying and preparing the dataset

- Tableau: For data visualization and dashboard creation
- HTML/CSS/JS: For web integration

4. PROJECT DESIGN

4.1 Problem Solution Fit

The growing adoption of electric vehicles (EVs) has created an urgent need for a reliable and accessible charging infrastructure. However, users face significant challenges such as limited availability of charging stations, inconsistent power types (AC/DC), and inadequate information about charging range support. These issues hinder the widespread use of EVs, especially in regions with poor infrastructure.

Our solution directly addresses these problems by analyzing data related to charging station locations, power types, and charging capabilities. Through a user-friendly, data-driven dashboard, users and decision-makers can visualize availability, identify underserved areas, and make informed decisions. This ensures that the proposed solution effectively aligns with the real-world problem, fulfilling both user needs and infrastructure planning goals.

4.2 Proposed Solution

The proposed solution is a data-driven, interactive dashboard that analyses EV charging station availability, power type (AC/DC), and charging range across regions. By collecting and processing real-time or static datasets, the system provides visual insights through maps and graphs. Users can filter data based on region, power type, or charging speed, helping both individuals and planners make informed decisions. The platform aims to highlight infrastructure gaps, promote EV-friendly regions, and support expansion planning. This tool can be accessed via web interface and is designed to be scalable, user-friendly, and easily updatable with new datasets.

4.3 Solution Architecture

The solution architecture follows a modular design for scalability and clarity. Data is first collected from public APIs or datasets and processed using Python (with Pandas and NumPy). The cleaned data is then fed into a backend (Flask or Django, optional) and visualized using Plotly or Dash. The frontend interface, built with HTML, CSS, and JavaScript or React, displays interactive charts and maps. All components communicate through well-defined APIs or direct bindings. Optional use of a lightweight database like SQLite or PostgreSQL ensures efficient data storage. The final dashboard is deployable via platforms like Streamlit Cloud or Heroku.

5. PROJECT PLANNING & SCHEDULING

5.1 Project Planning

This project was planned step by step to complete it on time. First, we understood the problem and collected ideas by using tools like empathy maps and brainstorming. Then, we listed the things we needed, like data, tools, and technologies. In the next phase, we designed how the system would work and how the dashboard would look. After that, we collected the data, processed it, and built the dashboard. In the final phase, we tested everything to make sure it worked well. We used simple planning tools like task lists or charts to divide the work, track progress, and finish each part on schedule.

6. FUNCTIONAL AND PERFORMANCE TESTING

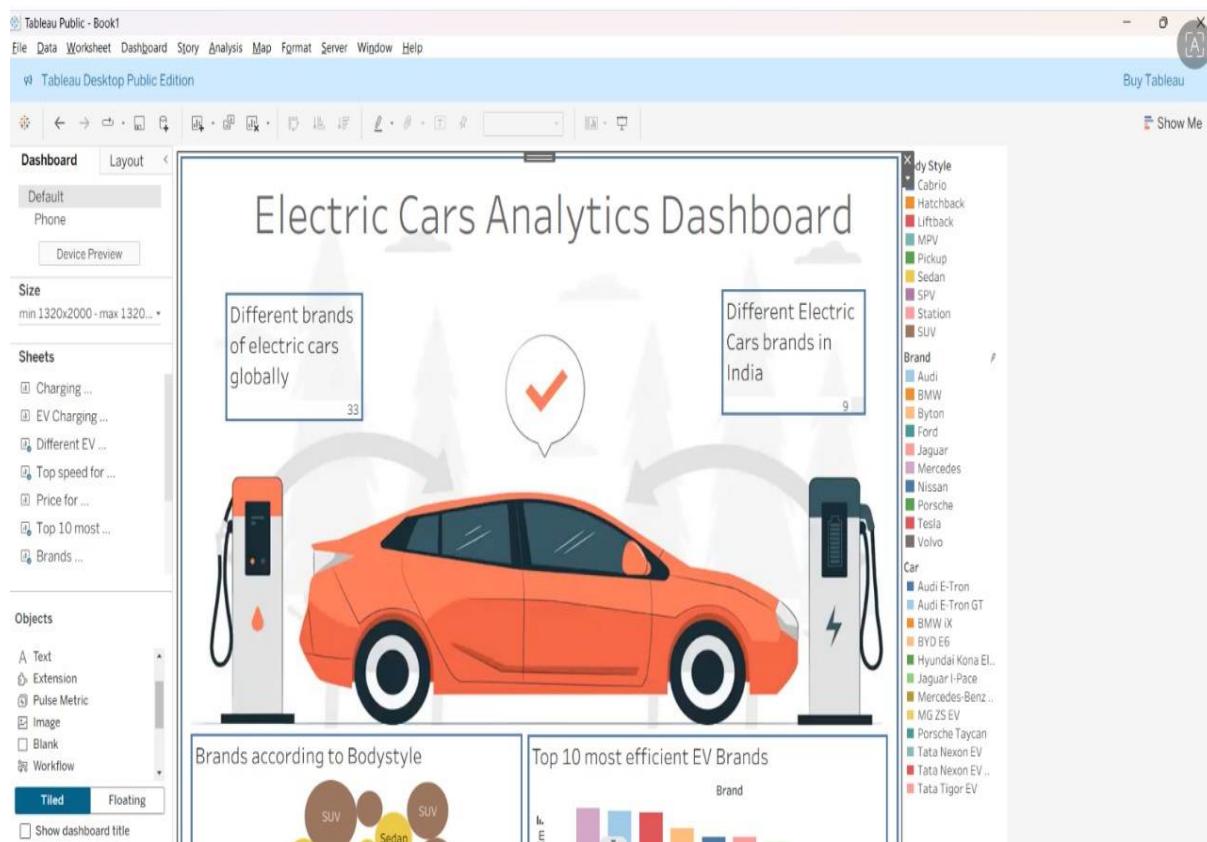
6.1 Performance Testing

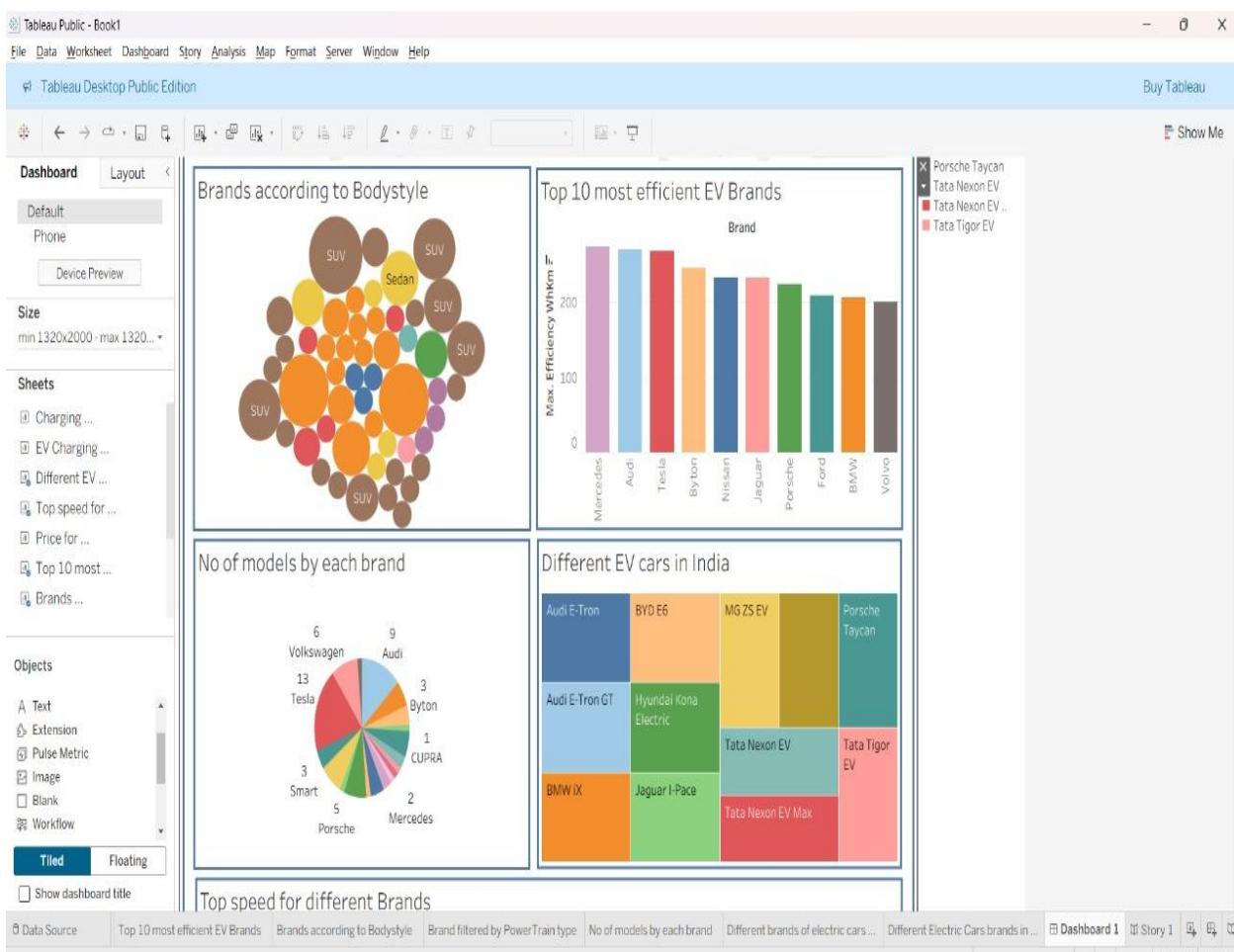
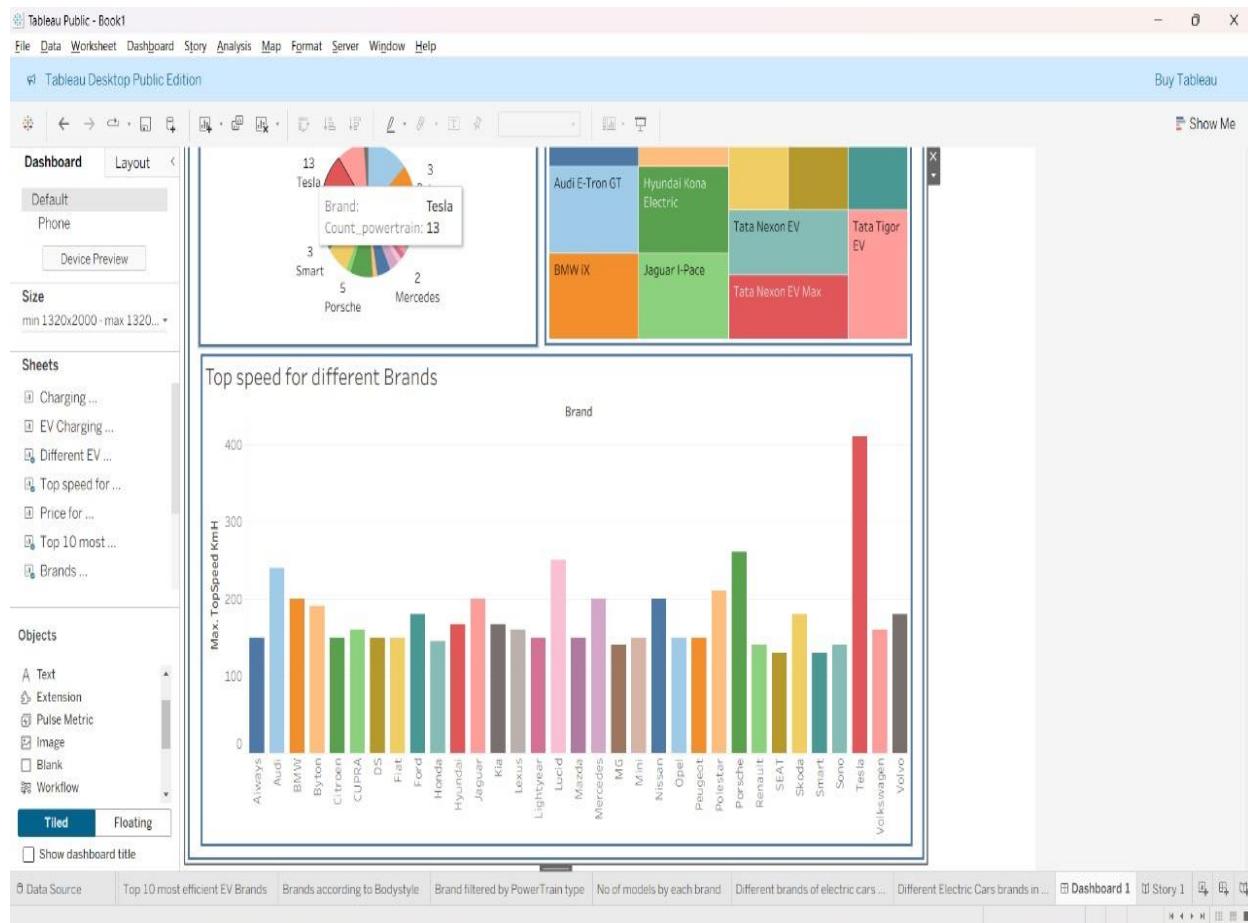
Performance testing was done to check how well the dashboard works when used by different users or with large amounts of data. We tested the speed of loading maps, charts, and filters to make sure everything works smoothly. We also checked if the dashboard responds quickly when switching between regions or power types. The goal was to make sure the system does not slow down or crash, even with heavy data or usage. Testing helped us improve the speed, fix any delays, and ensure that users get a fast and smooth experience while using the dashboard.

7. RESULTS

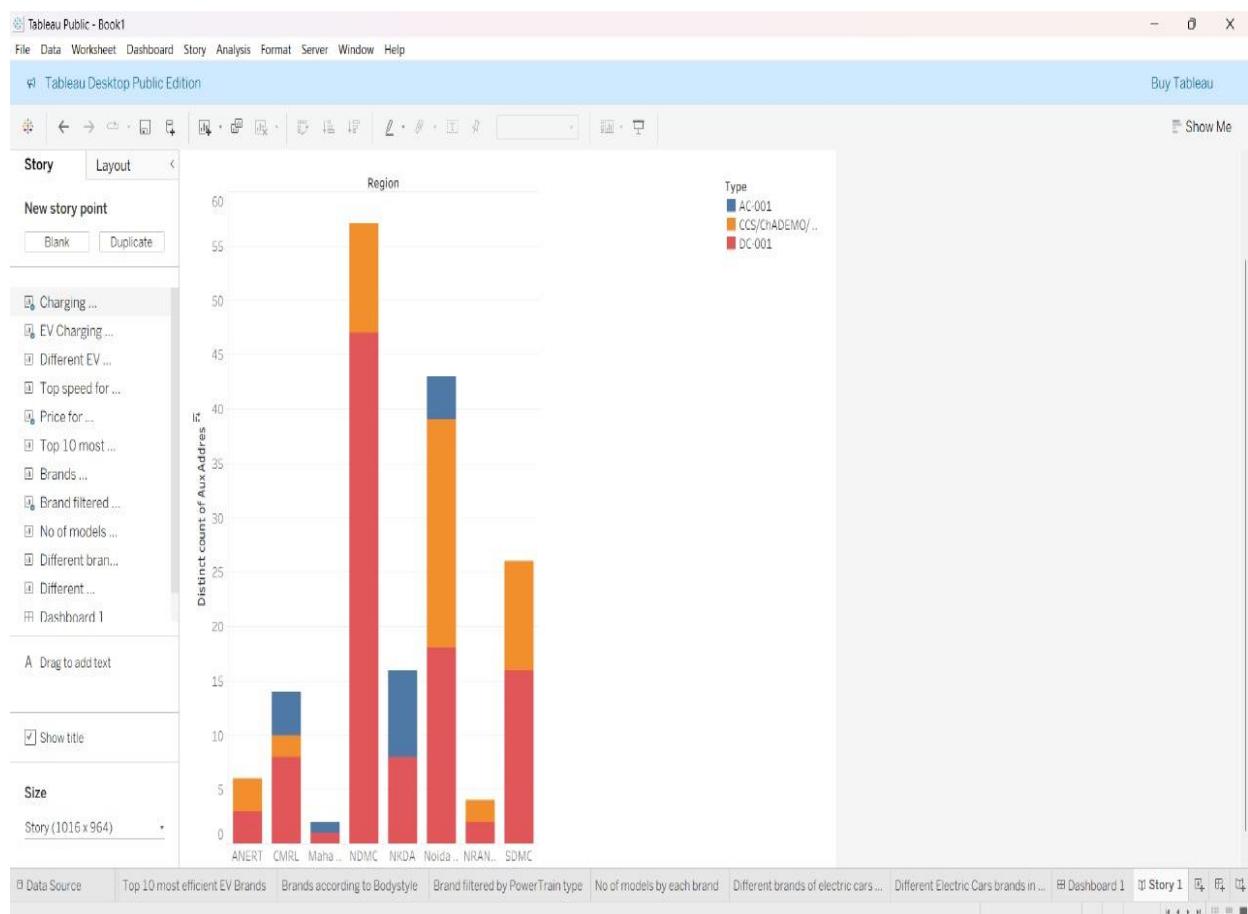
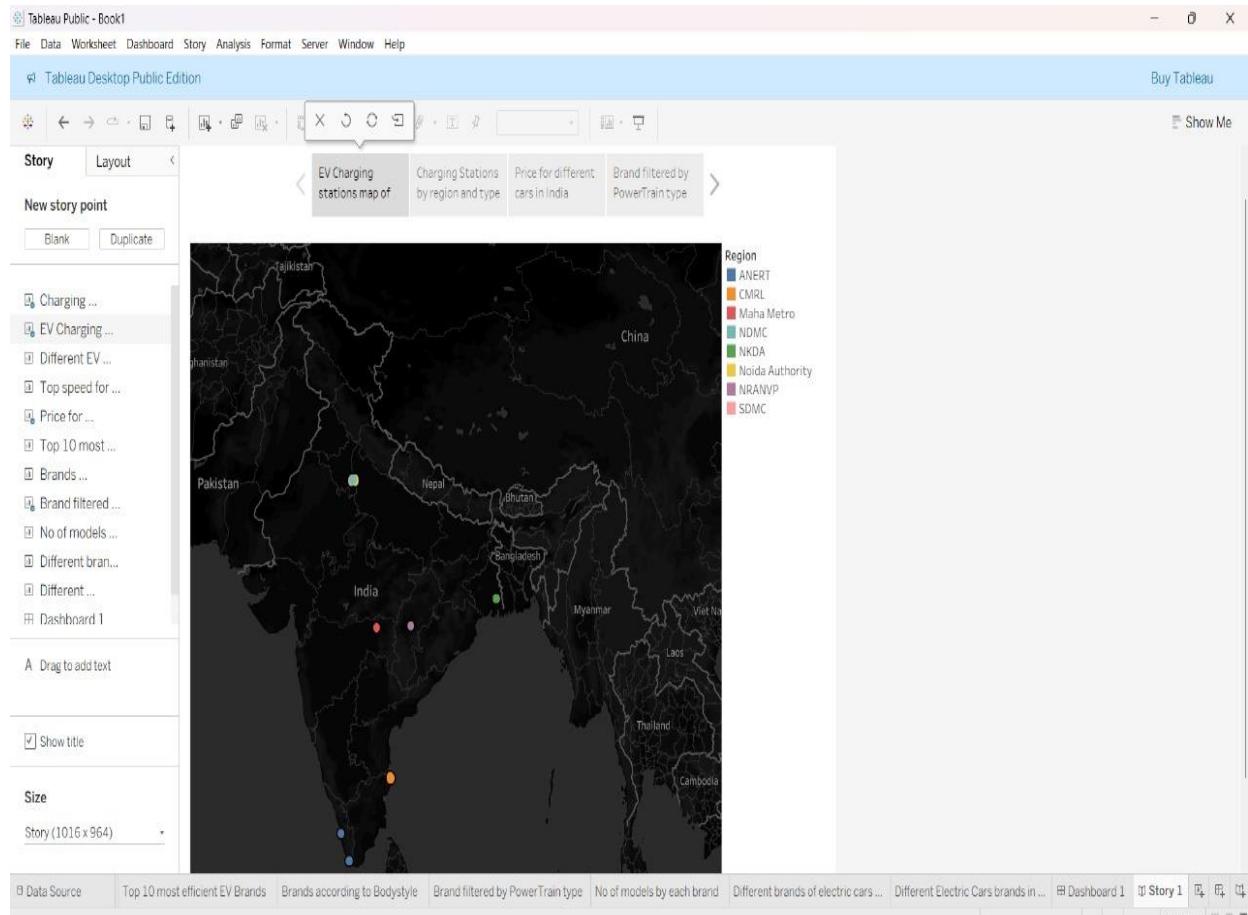
7.1 Output Screenshots

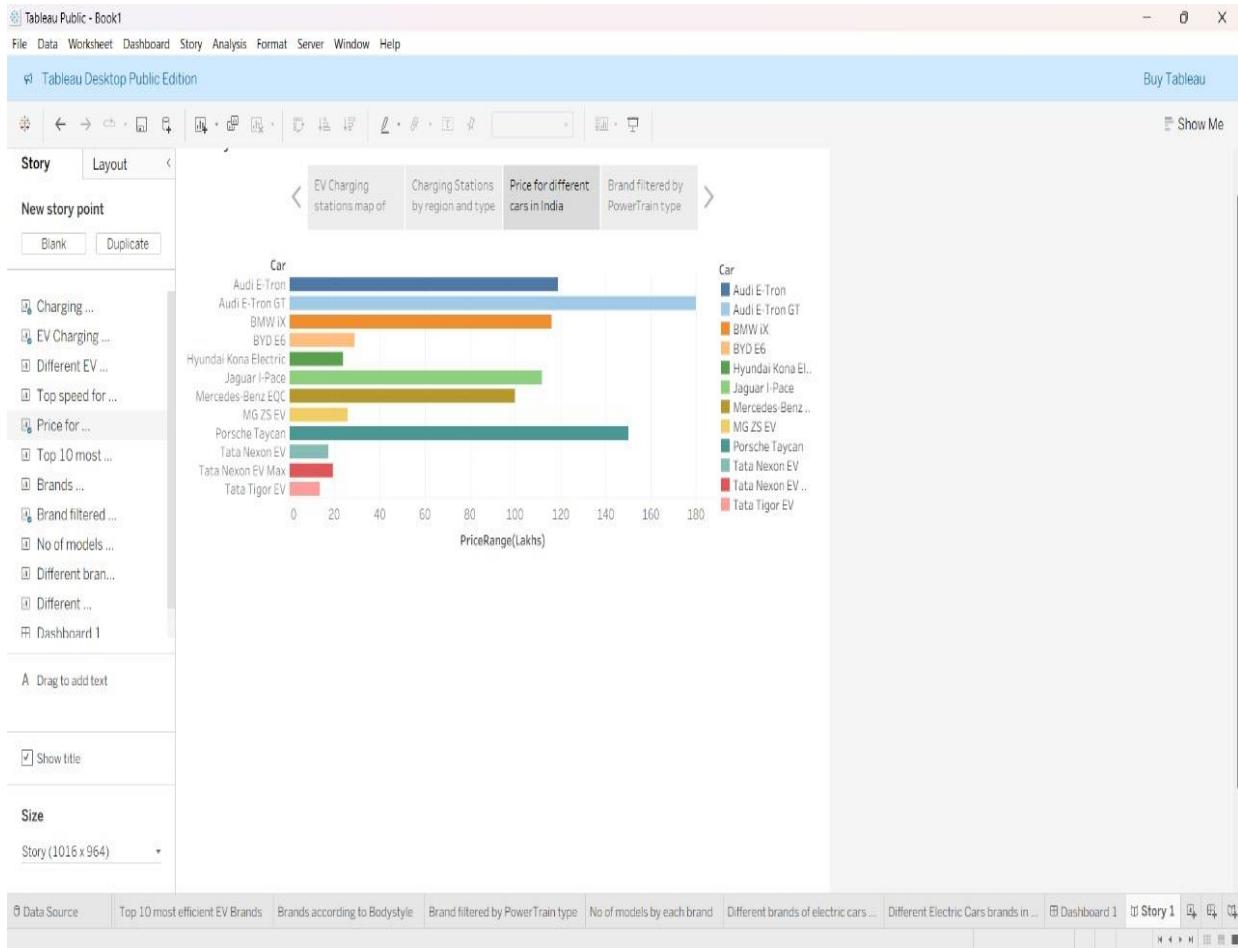
➤ Dashboard Screenshots



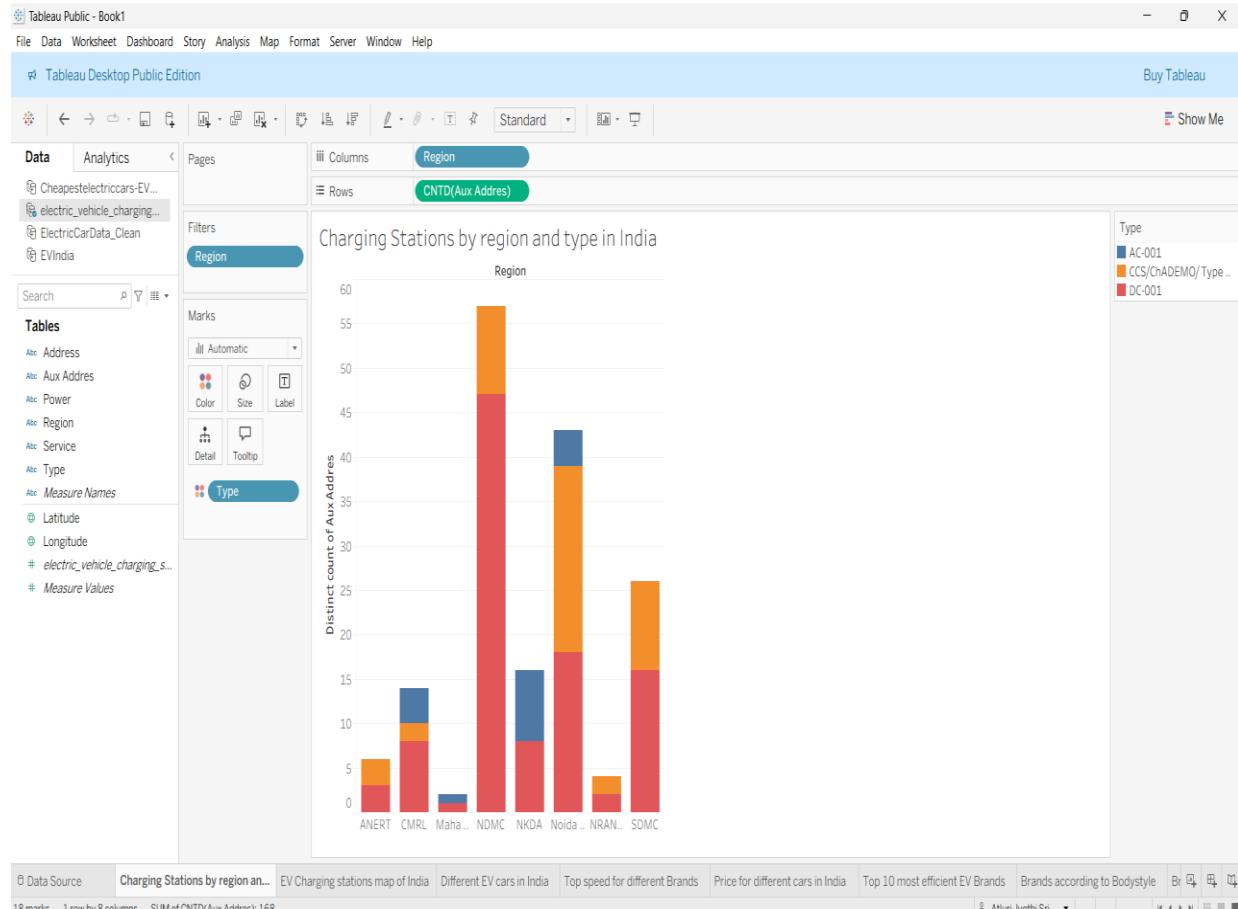


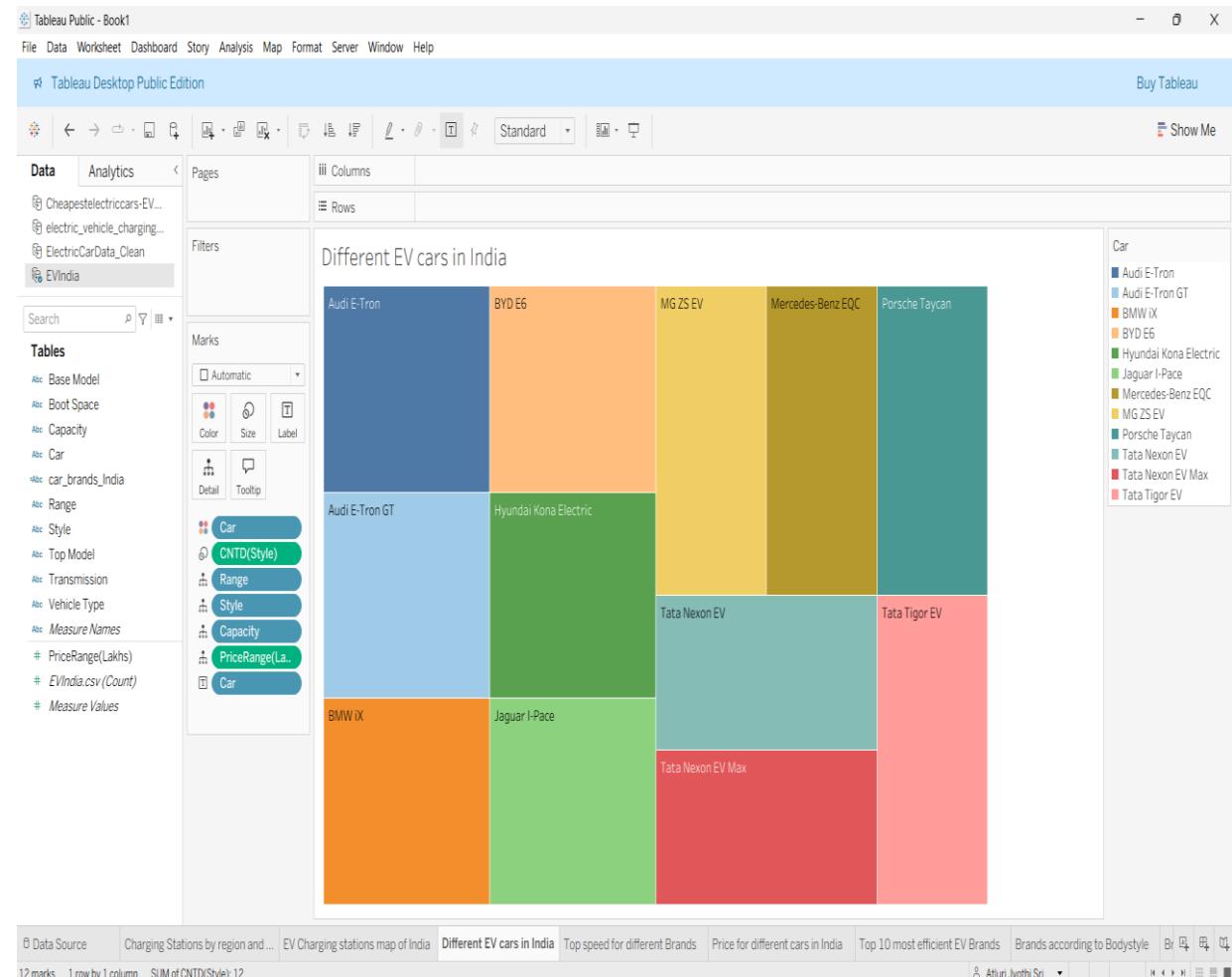
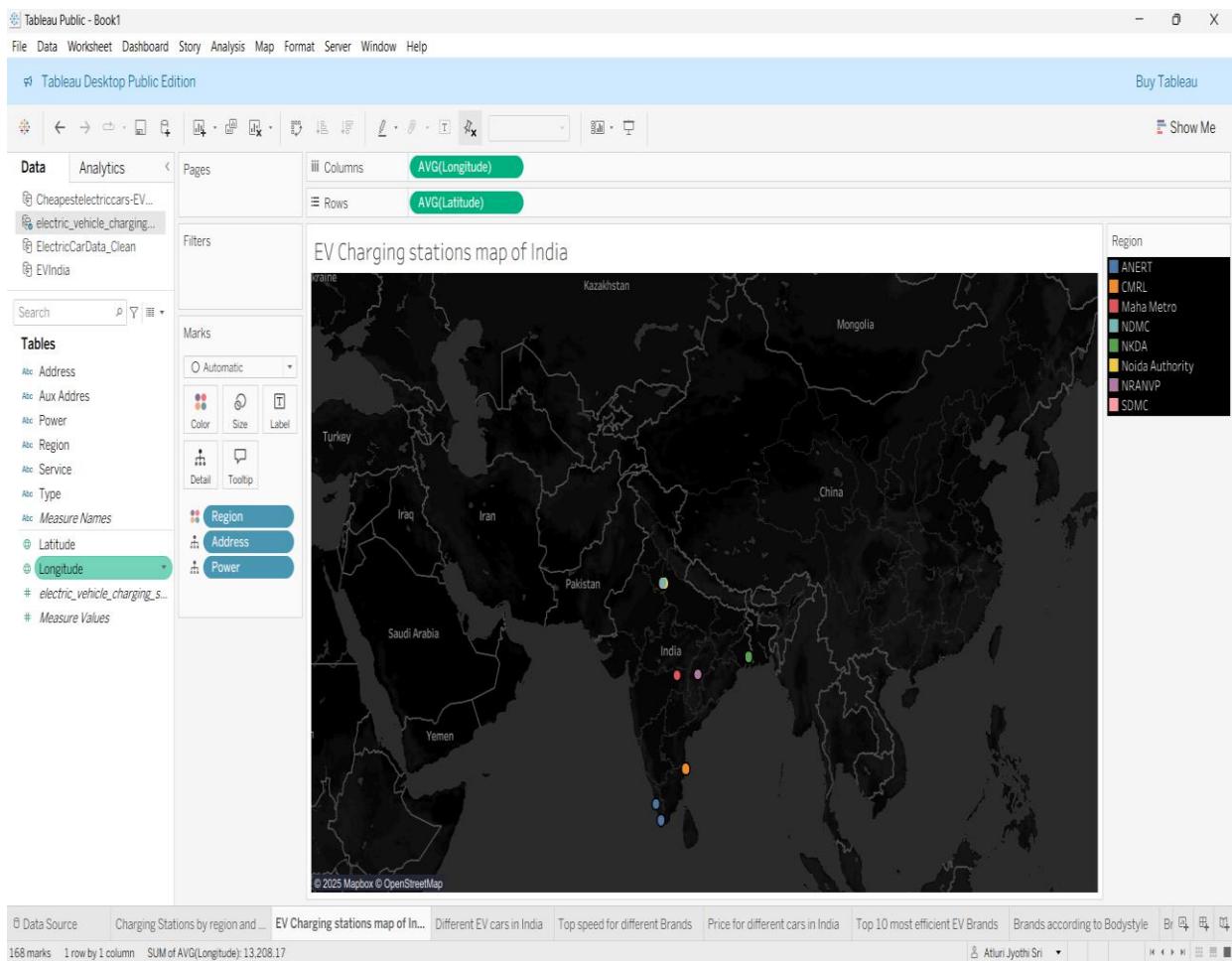
➤ Storyboard Screenshots

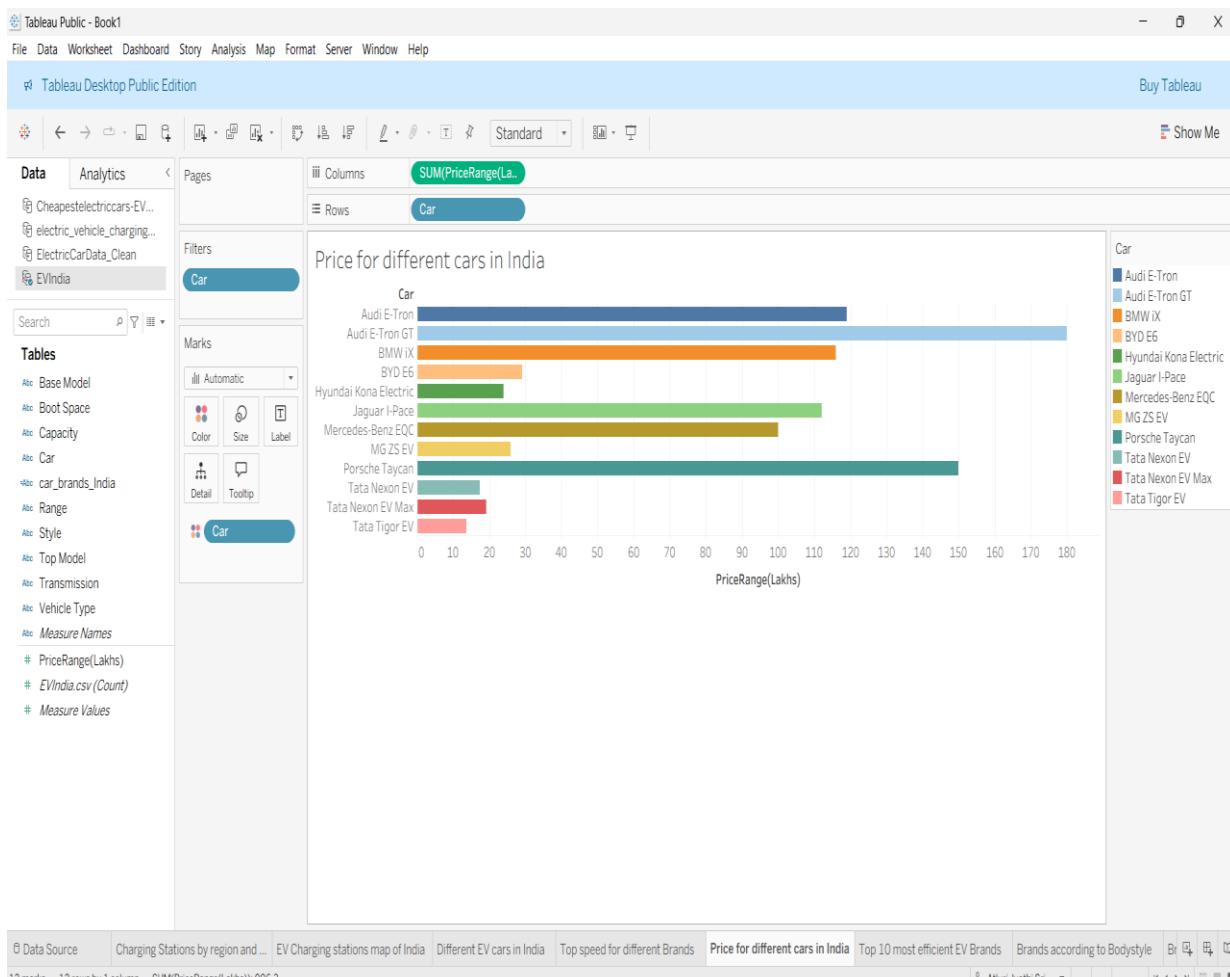
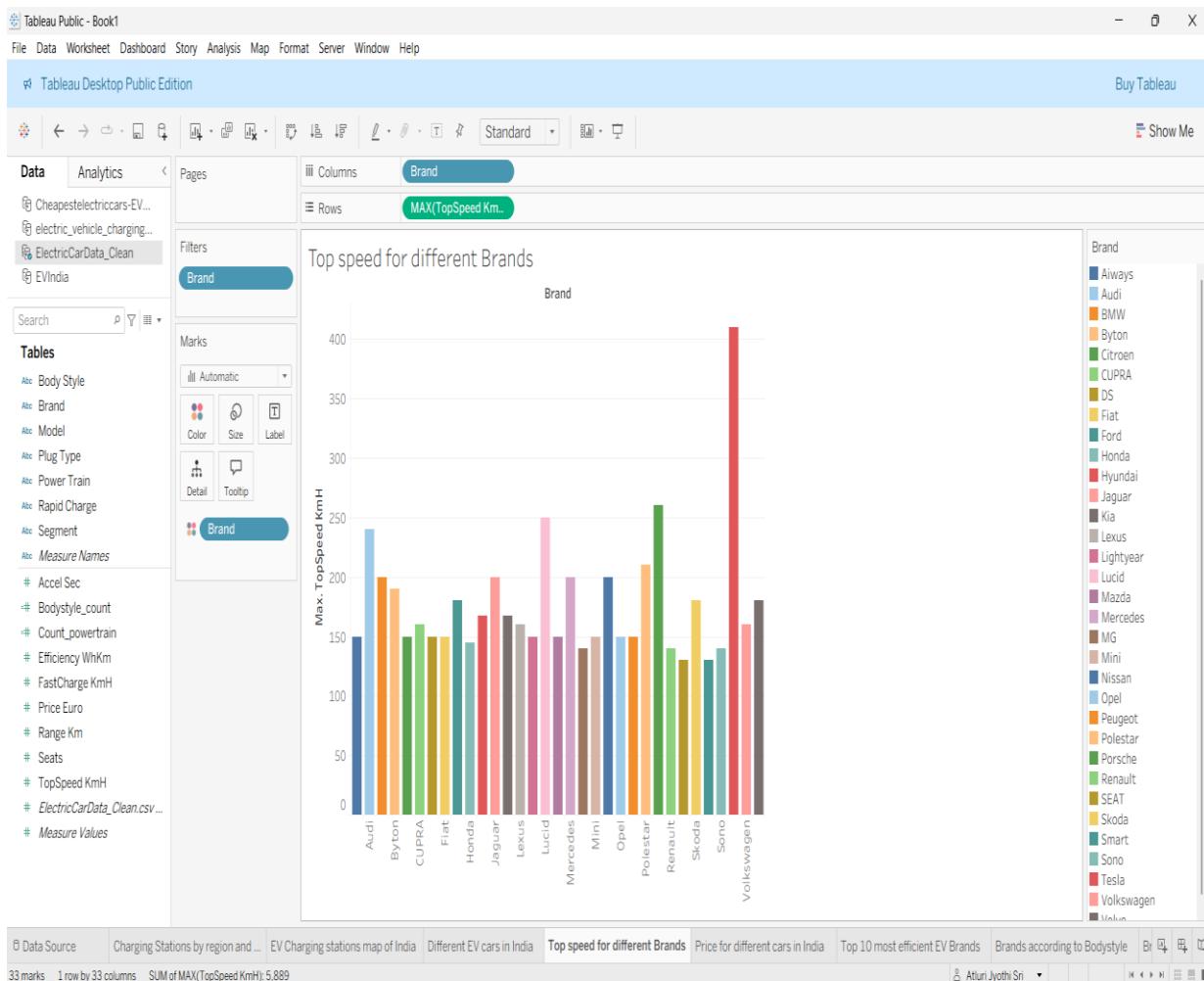


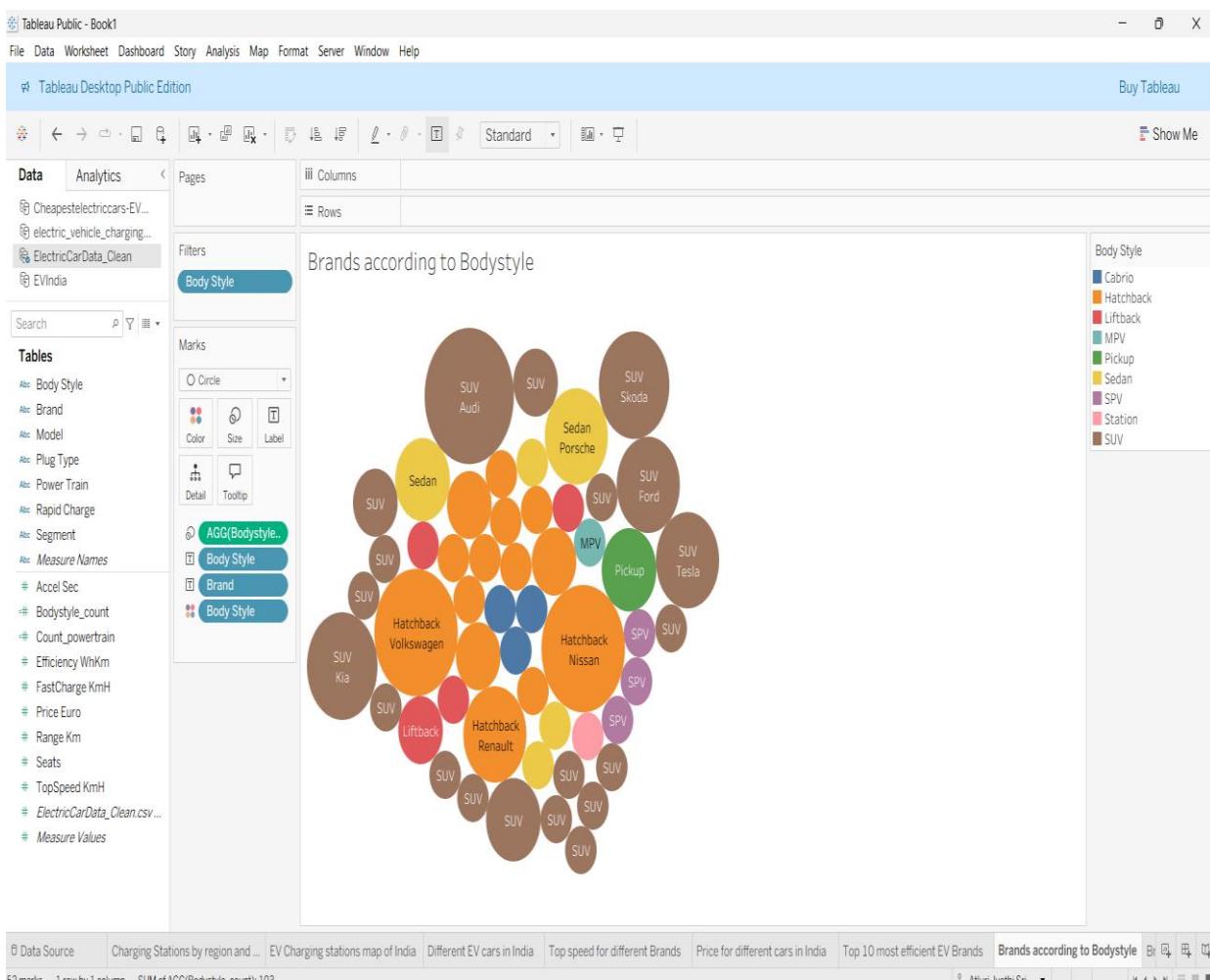
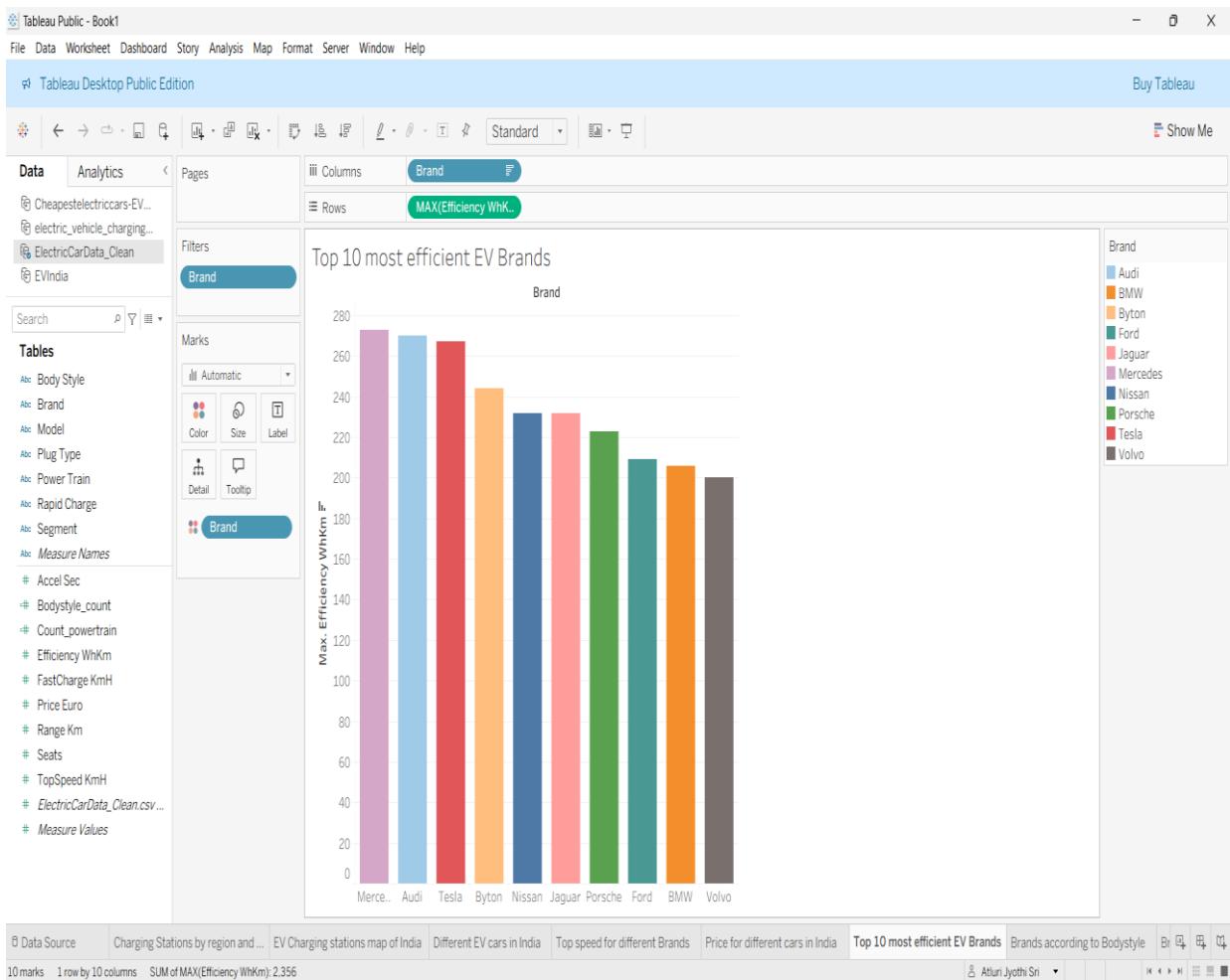


➤ Visualisation Images









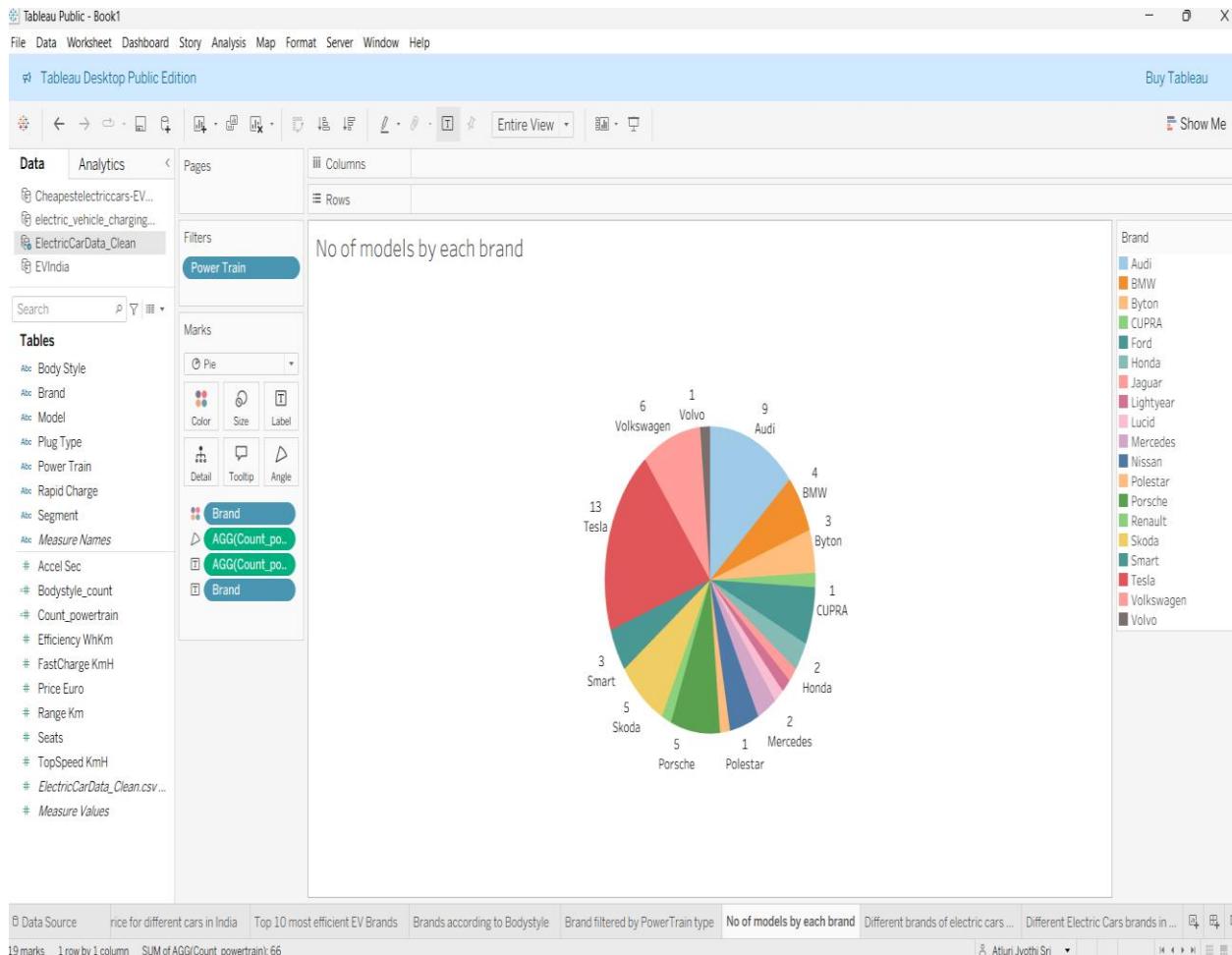
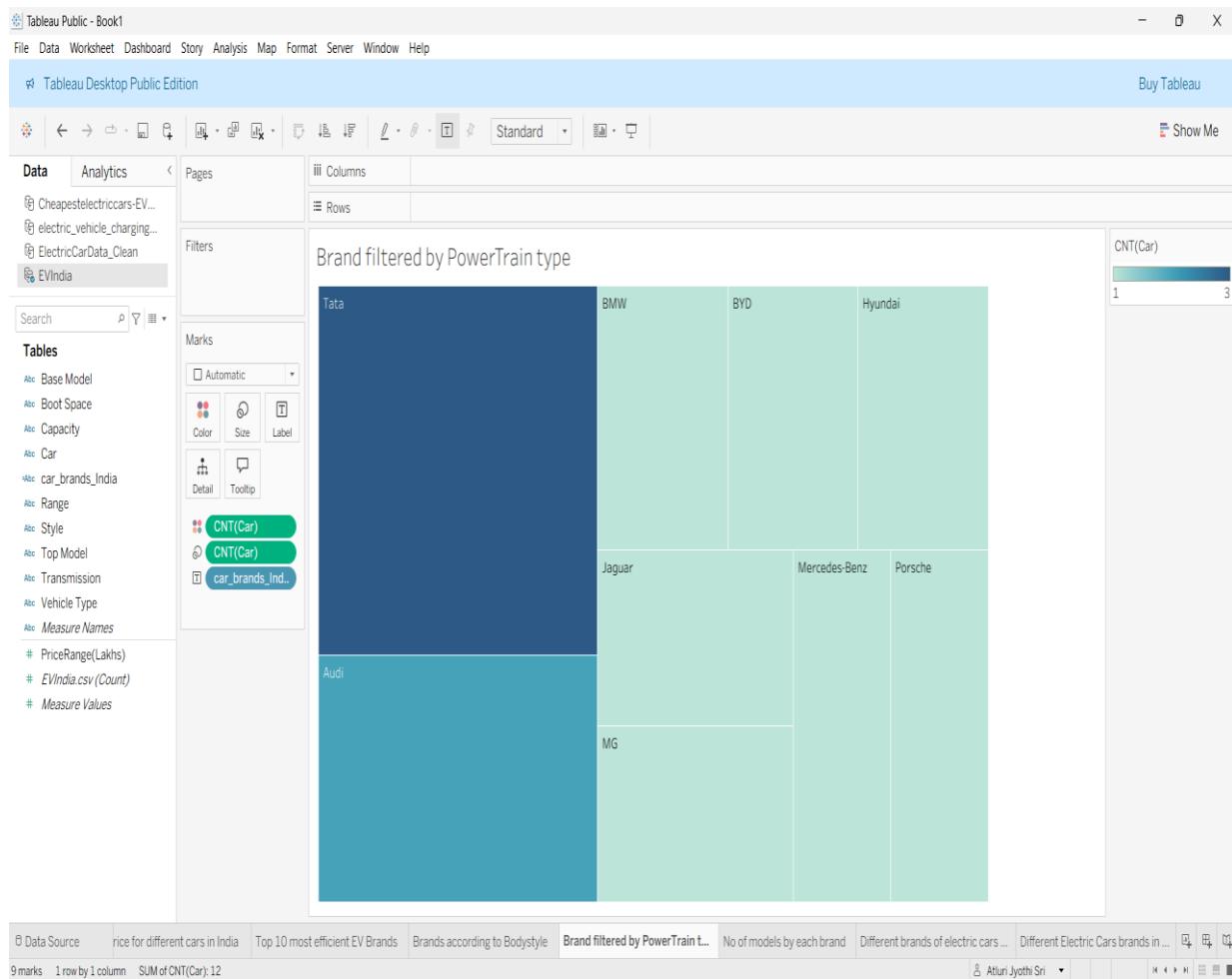


Tableau Public - Book1

File Data Worksheet Dashboard Story Analysis Map Format Server Window Help

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Data Analytics

Cheapestelectricars-EV...
electric_vehicle_charging...
ElectricCarData_Clean
EVIndia

Search

Tables

Abs: Body Style
Abs: Brand
Abs: Model
Abs: Plug Type
Abs: Power Train
Abs: Rapid Charge
Abs: Segment
Abs: Measure Names
Accel Sec
Bodystyle_count
Count_powertrain
Efficiency WhKm
FastCharge KmH
Price Euro
Range Km
Seats
TopSpeed KmH
ElectricCarData_Clean.csv...
Measure Values

Pages

iii Columns

≡ Rows

Different brands of electric cars globally

33

Marks

Automatic

Color Size Text

Detail Tooltip

CNTD(Brand)

Data Source

rice for different cars in India

Top 10 most efficient EV Brands

Brands according to Bodystyle

Brand filtered by PowerTrain type

No of models by each brand

Different brands of electric car...

Different Electric Cars brands in...

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Data Analytics

Cheapestelectriccars-EV... electric_vehicle_charging... ElectricCarData_Clean EVIndia

Pages

Columns

Rows

Different Electric Cars brands in India

9

Search

Tables

Base Model Boot Space Capacity Car car_brands_India Range Style Top Model Transmission Vehicle Type Measure Names Measure Names PriceRange(Lakhs) EVIndia.csv(Count) Measure Values

Marks

Automatic

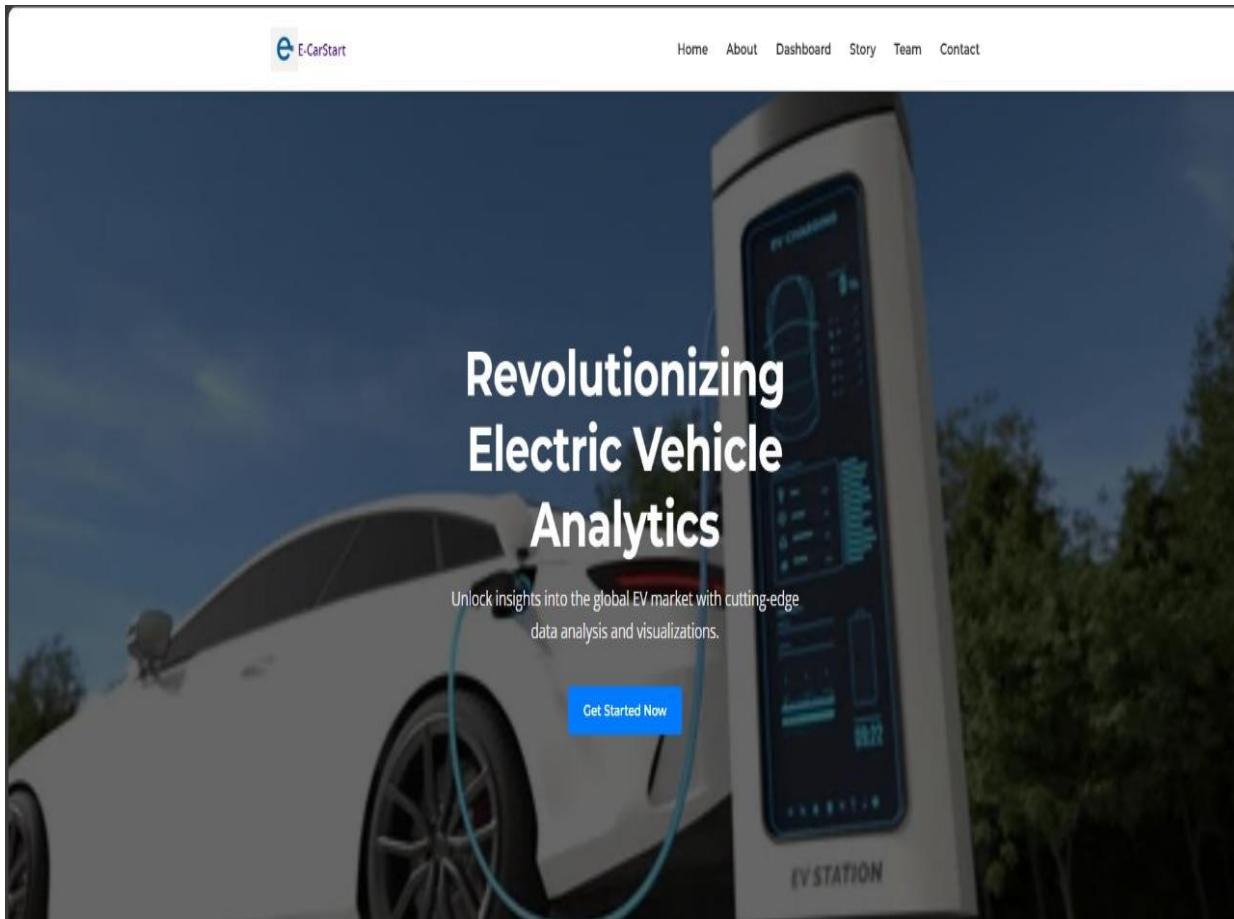
Color Size Text Detail Tooltip

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1 mark 1 row by 1 column SUM of CNTD(car_brands_India): 9

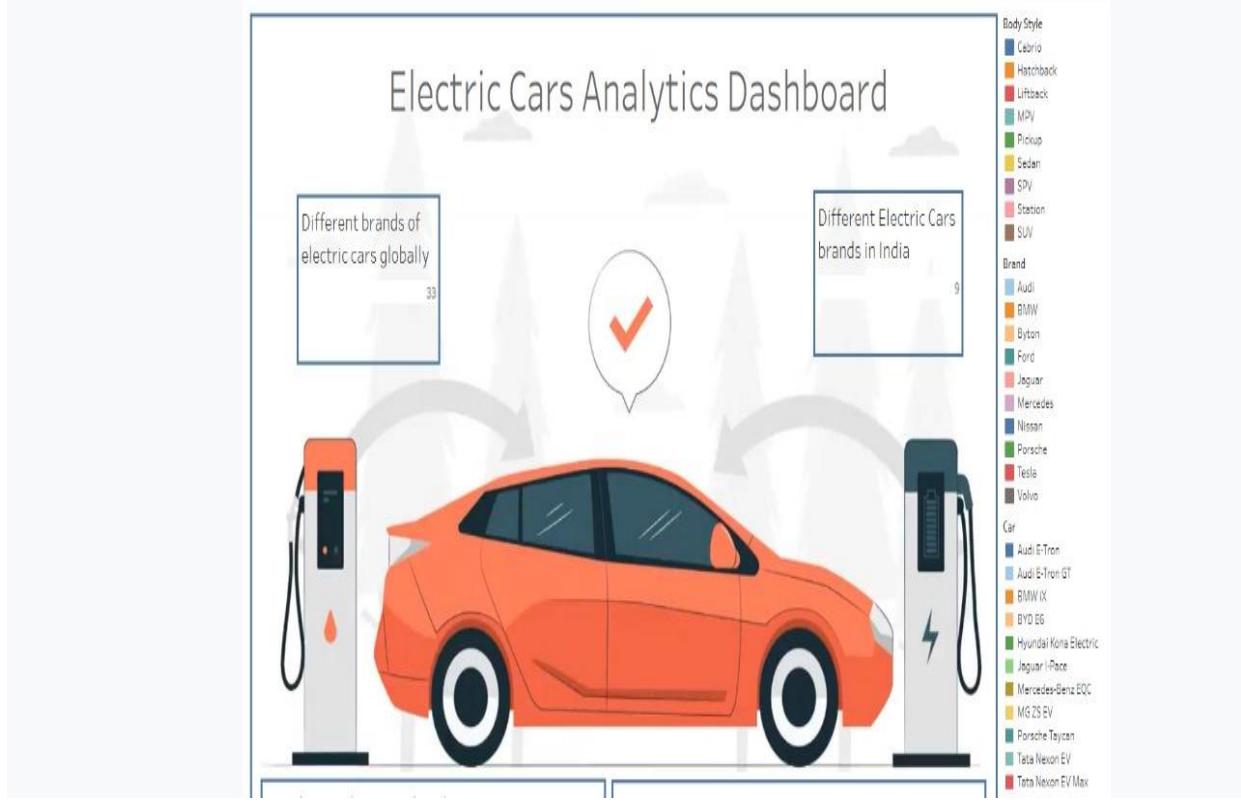
Aturi Jyothi Sri

➤ Website Images

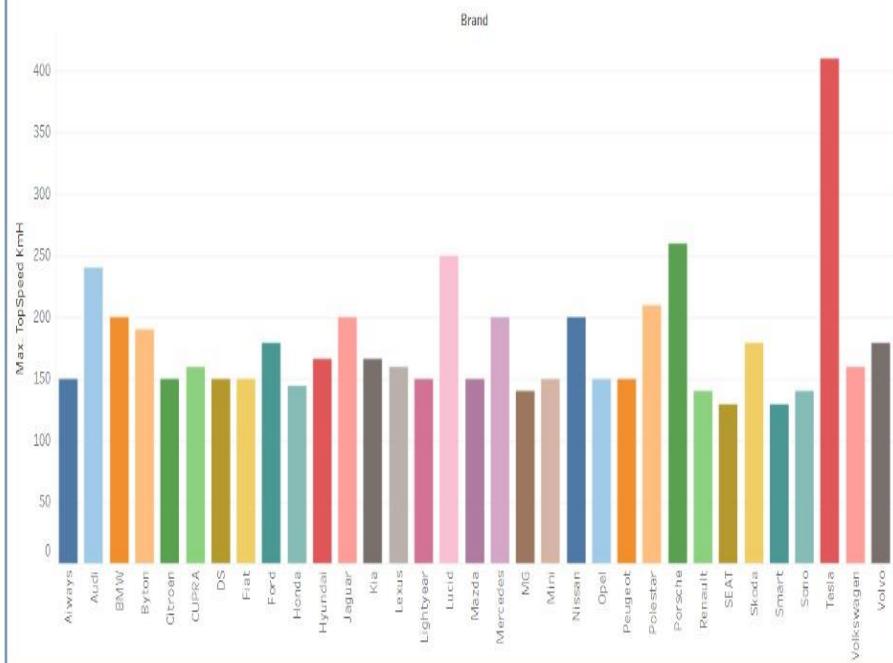


The image shows the 'About' page of the E-CarStart website. At the top left is the logo 'E-CarStart'. At the top right are navigation links: Home, About, Dashboard, Story, Team, and Contact. The main heading is 'About E-CarStart'. Below this, there is a paragraph of text describing the platform: 'E-CarStart is your comprehensive analytics platform for the burgeoning electric vehicle market. While EVs have existed for a while, recent advancements in battery technology, charging infrastructure, and data collection have propelled them into the mainstream.' To the right of the text is a light gray rectangular area containing an illustration. The illustration depicts a man and a woman standing next to a small blue electric car. The car is connected to a blue charging station. In the background, there are stylized green hills and a bright sun or moon in the sky.

Electric Vehicle Dashboard



Top speed for different Brands


[View on Tableau Public](#)

Electric Vehicle Story

Story 1

[EV Charging stations map of India](#) [Charging Stations by region and type in India](#) [Price for different cars in India](#) [Brand filtered by Powertrain type](#)



Meet Our Team

**Jyothi Sri**

Founder & Lead Data Scientist

Specializing in predictive modeling for EV adoption and infrastructure planning.

**Harika**

Product Manager

Focuses on user experience and delivering actionable insights from complex datasets.

**Bhavana**

Data Visualization Specialist

Crafting compelling and intuitive data stories with Tableau and other tools.

**Rajesh**

Research & Development

Exploring new data sources and analytical techniques for future EV trends.

Ready to Drive Your EV Strategy

Forward?[Contact Us Today](#)

Contact Us

We'd love to hear from you! Fill out the form below or reach out directly:

Name:	<input type="text"/>
Email:	<input type="text"/>
Subject:	<input type="text"/>
Message:	<input type="text"/>
<input type="button" value="Send Message"/>	

[Send Message](#)

8. ADVANTAGES & DISADVANTAGES

Advantages:

- Better Planning:

Helps users, companies, and governments plan EV travel routes and infrastructure needs.

- Improves Accessibility:

Identifies areas with low charging station availability for future development.

- User-Friendly Dashboard:

Makes complex data easy to understand using visuals like maps and charts.

- Supports EV Adoption:

Gives confidence to users by showing reliable and available charging options.

- Custom Analysis:

Allows filtering by region, power type (AC/DC), and charge range.

Disadvantages:

- Data Limitations:

Accuracy depends on how current and complete the charging station data is.

- Internet Required:

Users need internet access to use the online dashboard or maps.

- Technical Knowledge:

Setting up and maintaining the dashboard may require some programming or data skills.

- Not Real-Time (Always):

If using static datasets, real-time availability of stations may not be shown.

9. CONCLUSION

This project successfully analysed EV charging station data to understand availability, power types, and charging ranges in different regions. The interactive dashboard makes it easy for users to explore data and identify gaps in infrastructure. It helps both EV users and planners make better decisions. The solution is simple, informative, and supports the growth of electric mobility.

10. FUTURE SCOPE

In the future, this project can be expanded to show real-time charging station availability using live APIs. More features like cost comparison, user reviews, and charging time predictions can be added. It can also be scaled to cover more regions or integrated into mobile apps for easier access.

11. APPENDIX

Source Code

```
<!DOCTYPE html>
<html lang="en">
<head>
<style>
  * {
    margin: 0;
    padding: 0;
    box-sizing: border-box;
  }
  body {
    font-family: 'Open Sans', sans-serif;
    line-height: 1.6;
    color: #333;
    background-color: #f8f9fa;
    scroll-behavior: smooth;
  }
```

```
.logo-link {
  display: flex;
  align-items: center;
  text-decoration: none;
}

.site-logo {
  height: 45px;
  width: auto;
  max-width: 200px;
  transition: transform 0.3s ease;
}
.site-logo:hover {
  transform: scale(1.05);
}

@media (max-width: 768px) {
  .site-logo {
    height: 40px;
    max-width: 180px;
  }
}

@media (max-width: 480px) {
  .site-logo {
    height: 35px;
    max-width: 150px;
  }
}

.container {
  max-width: 1200px;
  margin: 0 auto;
  padding: 0 20px;
}

section {
  padding: 80px 0;
  text-align: center;
}

section:nth-child(even) {
  background-color: #e9ecf;
}
```

```
h1, h2, h3 {  
    font-family: 'Montserrat', sans-serif;  
    margin-bottom: 20px;  
    color: #212529;  
}  
  
h1 {  
    font-size: 3.5em;  
    margin-bottom: 10px;  
}  
  
h2 {  
    font-size: 2.5em;  
    margin-bottom: 40px;  
}  
  
h3 {  
    font-size: 1.8em;  
    margin-bottom: 15px;  
}  
  
p {  
    margin-bottom: 20px;  
    font-size: 1.1em;  
    color: #555;  
}  
  
.button {  
    display: inline-block;  
    background-color: #007bff;  
    color: #fff;  
    padding: 12px 25px;  
    border-radius: 5px;  
    text-decoration: none;  
    font-weight: 600;  
    transition: background-color 0.3s ease, transform 0.2s ease;  
    border: none;  
    cursor: pointer;  
    font-family: 'Montserrat', sans-serif;  
    font-size: 1em;  
}  
  
.button:hover {  
    background-color: #0056b3;  
    transform: translateY(-2px);  
}
```

```
/* Header & Navigation */
header {
    background-color: #fff;
    padding: 20px 0;
    box-shadow: 0 2px 10px rgba(0,0,0,0.05);
    position: sticky;
    top: 0;
    z-index: 1000;
}
```

```
header .container {
    display: flex;
    justify-content: space-between;
    align-items: center;
}
```

```
.logo {
    font-family: 'Montserrat', sans-serif;
    font-size: 1.8em;
    font-weight: 700;
    color: #007bff;
    text-decoration: none;
}
```

```
nav ul {
    list-style: none;
    display: flex;
}
```

```
nav ul li {
    margin-left: 30px;
}
```

```
nav ul li a {
    text-decoration: none;
    color: #333;
    font-weight: 600;
    font-family: 'Montserrat', sans-serif;
    transition: color 0.3s ease;
}
```

```
nav ul li a:hover {
    color: #007bff;
}
```

```
/* Hero Section */
```

```
#home {
    background: linear-gradient(rgba(0, 0, 0, 0.6), rgba(0, 0, 0, 0.6)), url('./pic1.webp') no-repeat center center/cover;
    color: #fff;
    padding: 250px 0;
    display: flex;
    align-items: center;
    justify-content: center;
    min-height: 70vh; /* Make it take up more screen height */
}

#home .hero-content {
    max-width: 800px;
}

#home h1 {
    color: #fff;
    font-size: 4em;
    margin-bottom: 20px;
    line-height: 1.2;
}

#home p {
    color: #eee;
    font-size: 1.3em;
    margin-bottom: 40px;
    max-width: 600px;
    margin-left: auto;
    margin-right: auto;
}

/* About Section */
#about .about-content {
    display: flex;
    align-items: center;
    gap: 40px;
    text-align: left;
}

#about .about-text {
    flex: 1;
}

#about .about-image {
    flex: 1;
}
```

```
#about img {
    max-width: 100%;
    height: auto;
    border-radius: 8px;
    box-shadow: 0 4px 15px rgba(0,0,0,0.1);
}

/* Tableau Embed Containers */
.tableau-embed-container {
    width: 100%;
    /* You may need to adjust this height or rely more on Tableau's JS for responsive height */
    height: 700px;
    background-color: #f0f0f0;
    display: flex;
    align-items: center;
    justify-content: center;
    font-style: italic;
    color: #666;
    border: 1px dashed #ccc;
    border-radius: 8px;
    margin-top: 30px;
    overflow: hidden; /* Important for Tableau iframes */
}

.tableau-embed-container iframe {
    width: 100%;
    height: 100%;
    border: none;
}

/* Team Section */
.team-grid {
    display: grid;
    grid-template-columns: repeat(auto-fit, minmax(280px, 1fr));
    gap: 30px;
    margin-top: 50px;
}

.team-member {
    background-color: #fff;
    padding: 30px;
    border-radius: 8px;
    box-shadow: 0 4px 15px rgba(0,0,0,0.08);
    text-align: center;
    transition: transform 0.3s ease;
}
```

```
.team-member:hover {  
    transform: translateY(-5px);  
}  
  
}
```

```
.team-member img {  
    width: 150px;  
    height: 150px;  
    border-radius: 50%;  
    object-fit: cover;  
    margin-bottom: 20px;  
    border: 4px solid #007bff;  
}
```

```
.team-member h3 {  
    margin-bottom: 5px;  
    color: #007bff;  
}
```

```
.team-member p {  
    font-size: 0.95em;  
    color: #666;  
    margin-bottom: 10px;  
}
```

```
/* Contact Section */  
#contact .contact-form {  
    max-width: 600px;  
    margin: 0 auto;  
    background-color: #fff;  
    padding: 40px;  
    border-radius: 8px;  
    box-shadow: 0 4px 15px rgba(0,0,0,0.08);  
    text-align: left;  
}
```

```
#contact .form-group {  
    margin-bottom: 20px;  
}
```

```
#contact label {  
    display: block;  
    margin-bottom: 8px;  
    font-weight: 600;  
    color: #444;  
}
```

```
#contact input[type="text"],
```

```
#contact input[type="email"],  
#contact textarea {  
    width: 100%;  
    padding: 12px;  
    border: 1px solid #ccc;  
    border-radius: 5px;  
    font-family: 'Open Sans', sans-serif;  
    font-size: 1em;  
}  
  
#contact textarea {  
    min-height: 120px;  
    resize: vertical;  
}  
  
#contact button {  
    width: 100%;  
    padding: 15px;  
    font-size: 1.1em;  
}  
  
/* Footer */  
footer {  
    background-color: #212529;  
    color: #fff;  
    padding: 40px 0;  
    font-size: 0.9em;  
}  
  
footer .container {  
    display: flex;  
    flex-direction: column;  
    align-items: center;  
    justify-content: center;  
}  
  
footer nav ul {  
    margin-top: 20px;  
    margin-bottom: 20px;  
}  
  
footer nav ul li {  
    margin: 0 15px;  
}  
  
footer nav ul li a {  
    color: #bbb;
```

}

footer nav ul li a:hover {

color: #007bff;

}

/* Get Started CTA within sections */

.cta-section {

background-color: #007bff;

color: #fff;

padding: 60px 0;

}

.cta-section h2 {

color: #fff;

font-size: 2.8em;

margin-bottom: 20px;

}

.cta-section p {

color: #eee;

margin-bottom: 40px;

font-size: 1.2em;

}

.cta-section .button {

background-color: #fff;

color: #007bff;

}

.cta-section .button:hover {

background-color: #f0f0f0;

color: #0056b3;

}

/* Responsive Design */

@media (max-width: 768px) {

h1 {

font-size: 2.5em;

}

h2 {

font-size: 2em;

}

#home {

padding: 100px 0;

}

#home h1 {

```
    font-size: 3em;
}
#home p {
    font-size: 1em;
}
nav ul {
    flex-direction: column;
    margin-top: 15px;
}
nav ul li {
    margin: 10px 0;
}
header .container {
    flex-direction: column;
}
#about .about-content {
    flex-direction: column;
}
.team-grid {
    grid-template-columns: 1fr;
}
.tableau-embed-container {
    height: 500px; /* Adjust height for smaller screens */
}
}

@media (max-width: 480px) {
    h1 {
        font-size: 2em;
    }
    h2 {
        font-size: 1.8em;
    }
    section {
        padding: 60px 0;
    }
    .button {
        padding: 10px 20px;
        font-size: 0.9em;
    }
    .logo {
        font-size: 1.5em;
    }
    .tableau-embed-container {
        height: 400px; /* Further adjust height for very small screens */
    }
}
```

```
</style>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>E-CarStart - Electric Vehicle Analytics</title>
<link href="https://fonts.googleapis.com/css2?family=Montserrat:wght@400;600;700&family=Open+Sans:wght@400;600&display=swap" rel="stylesheet">
</head>
<body>

<header>
  <div class="container">
    <a href="#home" class="logo-link"><h4>E-CarStart</h4>
  </a>
    <nav>
      <ul>
        <li><a href="#home">Home</a></li>
        <li><a href="#about">About</a></li>
        <li><a href="#dashboard-section">Dashboard</a></li>
        <li><a href="#story-section">Story</a></li>
        <li><a href="#team">Team</a></li>
        <li><a href="#contact">Contact</a></li>
      </ul>
    </nav>
  </div>
</header>

<main>
  <section id="home">
    <div class="container hero-content">
      <h1>Revolutionizing Electric Vehicle Analytics</h1>
      <p>Unlock insights into the global EV market with cutting-edge data analysis and visualizations.</p>
      <a href="#get-started" class="button">Get Started Now</a>
    </div>
  </section>

  <section id="about" class="container">
    <h2>About E-CarStart</h2>
    <div class="about-content">
      <div class="about-text">
        <p>E-CarStart is your comprehensive analytics platform for the burgeoning electric vehicle market. While EVs have existed for a while, recent advancements in battery technology, charging infrastructure, and data collection have propelled them into the mainstream.</p>
        <p>Our platform leverages modern mechatronic vehicle data, combining electrical storage and propulsion system metrics with secure data transfer and advanced analysis. This comprehensive approach

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forms a complete transportation solution, with data analytics at its core, driving the widespread adoption and optimization of electric vehicles globally.</p>

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<a href="#contact" class="button">Learn More</a>
</div>
<div class="about-image">
  
</div>
</div>
</section>
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<section id="dashboard-section" class="container">
  <h2>Electric Vehicle Dashboard</h2>
  <div class='tableauPlaceholder' id='viz1751091240881' style='position: relative'><noscript><a href='#'><img alt='Dashboard 1 '>
    src='https://public.tableau.com/static/images/Fi/File1_17510911800480&#47;Dashboard1&#47;1_rss.png' style='border: none' /></a></noscript><object class='tableauViz' style='display:none;'><param name='host_url' value='https%3A%2F%2Fpublic.tableau.com%2F' /><param name='embed_code_version' value='3' /><param name='site_root' value="/" /><param name='name' value='File1_17510911800480&#47;Dashboard1' /><param name='tabs' value='no' /><param name='toolbar' value='yes' /><param name='static_image' value='https://public.tableau.com/static/images/Fi/File1_17510911800480&#47;Dashboard1&#47;1.png' /><param name='animate_transition' value='yes' /><param name='display_static_image' value='yes' /><param name='display_spinner' value='yes' /><param name='display_overlay' value='yes' /><param name='display_count' value='yes' /><param name='language' value='en-US' /><param name='filter' value='publish=yes' /></object></div>      <script type='text/javascript'>
    var divElement = document.getElementById('viz1751091240881');
    var vizElement = divElement.getElementsByTagName('object')[0];
    if ( divElement.offsetWidth > 800 ) { vizElement.style.width='1320px';vizElement.style.height='2027px';} else if ( divElement.offsetWidth > 500 ) { vizElement.style.width='1320px';vizElement.style.height='2027px';} else {
      vizElement.style.width='100%';vizElement.style.height='2327px';}
    var scriptElement = document.createElement('script');
    scriptElement.src =
      'https://public.tableau.com/javascripts/api/viz_v1.js';
    vizElement.parentNode.insertBefore(scriptElement, vizElement);
  </script>
</div>
</section>
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<section id="story-section" class="container">
  <h2>Electric Vehicle Story</h2>
  <div class='tableauPlaceholder' id='viz1751091281578' style='position: relative'><noscript><a href='#'><img alt='Story 1 '>
    src='https://public.tableau.com/static/images/Fi/File1_17510911800480&#47;Story1&#47;1_rss.png' style='border: none' /></a></noscript><object class='tableauViz' style='display:none;'><param name='host_url' value='https%3A%2F%2Fpublic.tableau.com%2F' /><param name='embed_code_version' value='3' /><param name='site_root' value="/" /><param name='name' value='File1_17510911800480&#47;Story1' /><param name='tabs' value='no' /><param name='toolbar' value='yes' /><param name='static_image' value='https://public.tableau.com/static/images/Fi/File1_17510911800480&#47;Story1&#47;1.png' /><param name='animate_transition' value='yes' /><param name='display_static_image' value='yes' /><param name='display_spinner' value='yes' /><param name='display_overlay' value='yes' /><param name='display_count' value='yes' /><param name='language' value='en-US' /><param name='filter' value='publish=yes' /></object></div>
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&#47;Story1&#47;1.png' /><param name='animate_transition' value='yes' /><param name='display_static_image' value='yes' /><param name='display_spinner' value='yes' /><param name='display_overlay' value='yes' /><param name='display_count' value='yes' /><param name='language' value='en-US' /><param name='filter' value='publish=yes' /></object></div>      <script type='text/javascript'>      var divElement = document.getElementById('viz1751091281578');  
var vizElement = divElement.getElementsByTagName('object')[0];  
vizElement.style.width='1016px';vizElement.style.height='991px';      var scriptElement =  
document.createElement('script');      scriptElement.src =  
'https://public.tableau.com/javascripts/api/viz_v1.js';  
vizElement.parentNode.insertBefore(scriptElement, vizElement);      </script>  
    </div>  
</section>  
  
<section id="team" class="container">  
  <h2>Meet Our Team</h2>  
  <div class="team-grid">  
    <div class="team-member">  
        
      <h3>Jyothi Sri</h3>  
      <p>Founder & Lead Data Scientist</p>  
      <p>Specializing in predictive modeling for EV adoption and infrastructure planning.</p>  
    </div>  
    <div class="team-member">  
        
      <h3>Harika</h3>  
      <p>Product Manager</p>  
      <p>Focuses on user experience and delivering actionable insights from complex datasets.</p>  
    </div>  
    <div class="team-member">  
        
      <h3>Bhavana</h3>  
      <p>Data Visualization Specialist</p>  
      <p>Crafting compelling and intuitive data stories with Tableau and other tools.</p>  
    </div>  
    <div class="team-member">  
        
      <h3>Rajesh</h3>  
      <p>Research & Development</p>  
      <p>Exploring new data sources and analytical techniques for future EV trends.</p>  
    </div>  
  </div>  
</section>  
  
<section id="get-started" class="cta-section">  
  <div class="container">  
    <h1>Ready to Drive Your EV Strategy Forward?</h1>  
    <p>Connect with our experts and transform raw data into powerful business intelligence.</p>
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<a href="#contact" class="button">Contact Us Today</a>
</div>
</section>

<section id="contact" class="container">
  <h2>Contact Us</h2>
  <p>We'd love to hear from you! Fill out the form below or reach out directly.</p>
  <div class="contact-form">
    <form action="#" method="POST">
      <div class="form-group">
        <label for="name">Name:</label>
        <input type="text" id="name" name="name" required>
      </div>
      <div class="form-group">
        <label for="email">Email:</label>
        <input type="email" id="email" name="email" required>
      </div>
      <div class="form-group">
        <label for="subject">Subject:</label>
        <input type="text" id="subject" name="subject">
      </div>
      <div class="form-group">
        <label for="message">Message:</label>
        <textarea id="message" name="message" required></textarea>
      </div>
      <button type="submit" class="button">Send Message</button>
    </form>
  </div>
</section>
</main>

<footer>
  <div class="container">
    <p>&copy; 2025 E-CarStart. All rights reserved.</p>
    <nav>
      <ul>
        <li><a href="#home">Home</a></li>
        <li><a href="#about">About</a></li>
        <li><a href="#dashboard-section">Dashboard</a></li>
        <li><a href="#story-section">Story</a></li>
        <li><a href="#team">Team</a></li>
        <li><a href="#contact">Contact</a></li>
      </ul>
    </nav>
    <p>Built with <span style="color: #e25555;">&hearts;</span> for the future of mobility.</p>
  </div>
</footer>
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</body>
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</html>
```

Dataset Link

<https://drive.google.com/drive/folders/1Rkzdks6Us1Uq2SRB4nxMAb83jN5bpHII>

GitHub Link

<https://github.com/Jyothi-1908/Visualization-tool-for-electric-vehicle-charge-and-range-analysis-using-Tableau>