



## **Visualization Tool for Electric Vehicle Charge and Range Analysis**

**Project Based Experiential Learning Program**

# Visualization Tool for Electric Vehicle Charge and Range Analysis

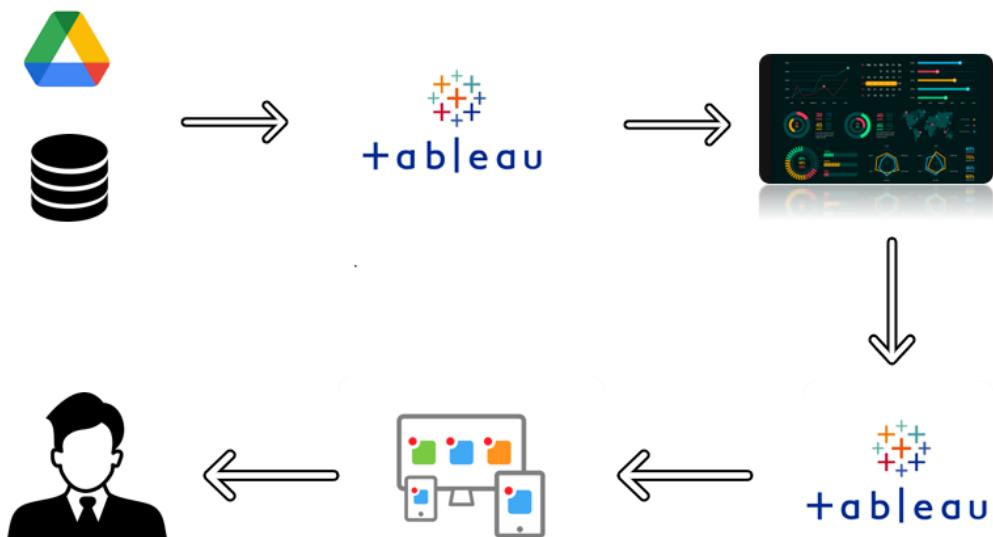
## Project Description

A vehicle that can be powered by an electric motor that draws electricity from a battery and is capable of being charged from an external source and have an electric motor instead of an internal combustion engine.

The Electric Vehicle (EV) is not new, but it has been receiving significantly more attention in recent years. Advances in both EV analytics and battery technologies have led to increased automotive market share. However, this growth is not attributed to hardware alone. The modern mechatronic vehicle marries electrical storage and propulsion systems with electronic sensors, controls, and actuators, integrated closely with software, secure data transfer, and data analysis, to form a comprehensive transportation solution. Advances in all these areas have contributed to the overall rise of EV's, but the common thread that runs through all these elements is data analytics.

The new EV's are combined Electrical storage and propulsion systems with electronic sensors, controls, and actuators, integrated closely with software, secure data transfer to form a comprehensive transportation solution.

## Technical Architecture



## **Project Flow**

To accomplish this, we have to complete all the activities listed below,

- Define Problem / Problem Understanding
  - Specify the business problem
  - Business requirements
  - Literature Survey
  - Social or Business Impact.
- Data Collection & Extraction from Database
  - Collect the dataset,
  - Storing Data in DB
  - Perform SQL Operations
  - Connect DB with Tableau
- Data Preparation
  - Prepare the Data for Visualization
- Data Visualizations
  - No of Unique Visualizations
- Dashboard
  - Responsive and Design of Dashboard
- Story
  - No of Scenes of Story
- Performance Testing
  - Amount of Data Rendered to DB '
  - Utilization of Data Filters
  - No of Calculation Fields
  - No of Visualizations/ Graphs
- Web Integration
  - Dashboard and Story embed with UI With Flask
- Project Demonstration & Documentation
  - Record explanation Video for project end to end solution
  - Project Documentation-Step by step project development procedure

## **Milestone 1: Define Problem / Problem Understanding**

### **Activity 1: Specify the business problem**

Refer Project Description

### **Activity 2: Business requirements**

The business requirements for analyzing the performance and efficiency of Electric cars include identifying KPIs, comparing performance across different parameters and brands also, identifying patterns and trends over time, identifying affecting factors, creating interactive dashboards and reports, identifying areas for improvement, making data-driven decisions, comparing to industry average and creating forecasting models for future performance. The ultimate goal is to gain insights and improve performance through data visualization techniques.

### **Activity 3: Literature Survey (Student Will Write)**

A literature survey is a method of researching existing literature and studies related to a specific topic. In the context of analyzing the performance and efficiency of electric vehicles, a literature survey would involve reviewing studies and articles that have been published on the topic of hotel performance and efficiency, as well as studies specific to electric vehicles. The literature survey would include sources such as academic journals, industry reports, and online articles. It would aim to identify key performance indicators (KPIs) and metrics that are commonly used to measure hotel performance and efficiency, as well as any best practices or strategies that have been identified for improving performance. The literature survey would also explore any existing research on electric vehicles specifically, and would aim to identify any unique challenges or opportunities that the electric vehicles faces in terms of performance and efficiency

### **Activity 4: Social or Business Impact.**

Social Impact: By solving or helping to solve the biggest issue in EV market. More people will understand and buy the EV instead of ICE's.

Business Model/Impact: This project can provide the insights for the Car/Battery Manufacturers and it can also provide the insights for the people who are using the EV or Thinking to enter in EV Market.

## **Milestone 2: Data Collection & Extraction from Database**

Data collection is the process of gathering and measuring information on variables of interest, in an established systematic fashion that enables one to answer stated research questions, test hypotheses, and evaluate outcomes and generate insights from the data.

### **Activity 1: Collect the dataset**

Please use the link to download the dataset: [Link](#)

#### **Activity 1.1: Understand the data**

Data contains all the meta information regarding the columns described in the CSV files. we have provided 4 CSV files:

1. EVIndia
2. Electric\_vehicle\_charging\_station\_list
3. ElectricCarData\_Clean
4. Cheapestelectriccars-EVDatabase

##### **Column Description for EVIndia:**

1. Car - Car Brand name and model
2. Style Range - Style range of car
3. Transmission- Transmission type
4. VehicleType – Type of vehicle
5. PriceRange(Lakhs) - Price Range in Lakhs
6. Capacity - Capacity of car
7. BootSpace – Bootspace of the car
8. BaseModel – Base model name
9. TopModel – Top model name

##### **Column Description for Electric\_vehicle\_charging\_station\_list:**

1. region: This column represents the region of the charging station.
2. address: This column represents the address of the charging station.
3. aux address: This column represents the auxiliary address of the charging station.
4. latitude: This column represents the latitude of the charging station.
5. longitude: This column represents the longitude of the charging station
6. type: This column represents the type of the charging station.
7. power: This column represents the power of the charging station.
8. service: This column represents the type of service at the charging station.

##### **Column Description for ElectricCarData\_Clean:**

1. Brand
2. Model
3. AccelSec
4. TopSpeed\_KmH
5. Range\_Km
6. Efficiency\_WhKm
7. FastCharge\_KmH
8. RapidCharge
9. PowerTrain
10. PlugType
11. BodyStyle
12. Segment

13. Seats
14. PriceEuro

**Column Description for Cheapestelectriccars-EVDatabase:**

1. Name
2. Subtitle
3. Acceleration
4. TopSpeed
5. Range
6. Efficiency
7. FastChargeSpeed
8. Drive
9. NumberofSeats
10. PriceinGermany
11. PriceinUK

**Activity 2: Storing Data in DB & Perform SQL Operations**

Explanation video link: [Database creation](#)

Explanation video link: [Basic SQL Operations](#)

**Activity 3: Connect DB with Tableau**

Explanation video link: [Database connection](#)

**Milestone 3: Data Preparation**

**Activity 1: Prepare the Data for Visualization**

Preparing the data for visualization involves cleaning the data to remove irrelevant or missing data, transforming the data into a format that can be easily visualized, exploring the data to identify patterns and trends, filtering the data to focus on specific subsets of data, preparing the data for visualization software, and ensuring the data is accurate and complete. This process helps to make the data easily understandable and ready for creating visualizations to gain insights into the performance and efficiency.

Explanation video link:

[https://drive.google.com/file/d/1IAMzG-Cut2uKqrYv7Z1gHtBJZ7XtM1YT/view?usp=share\\_link](https://drive.google.com/file/d/1IAMzG-Cut2uKqrYv7Z1gHtBJZ7XtM1YT/view?usp=share_link)

## **Milestone 4: Data Visualization**

Data visualization is the process of creating graphical representations of data in order to help people understand and explore the information. The goal of data visualization is to make complex data sets more accessible, intuitive, and easier to interpret. By using visual elements such as charts, graphs, and maps, data visualizations can help people quickly identify patterns, trends, and outliers in the data.

### **Activity 1: No of Unique Visualizations**

#### **Activity 1.1: Charging Stations by region and type in India**

**Explanation video link:**

[https://drive.google.com/file/d/1QuWuNC6S0wd04n8kCH\\_Z7Bo9PnZZvaEK/view?usp=share\\_link](https://drive.google.com/file/d/1QuWuNC6S0wd04n8kCH_Z7Bo9PnZZvaEK/view?usp=share_link)

#### **Activity 1.2: EV Charging stations map of India**

**Explanation video link:**

[https://drive.google.com/file/d/1JgMIZ7pKEIoYvOe5X0v59kmVTFZ-nSQV/view?usp=share\\_link](https://drive.google.com/file/d/1JgMIZ7pKEIoYvOe5X0v59kmVTFZ-nSQV/view?usp=share_link)

#### **Activity 1.3: Different EV cars in India**

**Explanation video link:**

[https://drive.google.com/file/d/1PvVm2oqr8j1ERO2luaNUcsROI3QY2ffC/view?usp=share\\_link](https://drive.google.com/file/d/1PvVm2oqr8j1ERO2luaNUcsROI3QY2ffC/view?usp=share_link)

#### **Activity 1.4: Top speed for different Brands**

**Explanation video link:**

[https://drive.google.com/file/d/1VXW8C9b4ycVHaEXnAJoBgB\\_N\\_miSII9V/view?usp=share\\_link](https://drive.google.com/file/d/1VXW8C9b4ycVHaEXnAJoBgB_N_miSII9V/view?usp=share_link)

#### **Activity 1.5: Price for different cars in India**

**Explanation video link:**

[https://drive.google.com/file/d/115HwkYlphwVgQGu8LHxBmuJKH9dyfhp/view?usp=share\\_link](https://drive.google.com/file/d/115HwkYlphwVgQGu8LHxBmuJKH9dyfhp/view?usp=share_link)

#### **Activity 1.6: Top 10 most efficient EV Brands**

**Explanation video link:**

[https://drive.google.com/file/d/1EhhapHIPsEqEE21e\\_2sLHQtR0VDXt8d/view?usp=share\\_link](https://drive.google.com/file/d/1EhhapHIPsEqEE21e_2sLHQtR0VDXt8d/view?usp=share_link)

#### **Activity 1.7: Brands according to Bodystyle**

**Explanation video link:**

[https://drive.google.com/file/d/16KiZpHu-mIdDb88ggZ8ZzvrOqpAJw8gg/view?usp=share\\_link](https://drive.google.com/file/d/16KiZpHu-mIdDb88ggZ8ZzvrOqpAJw8gg/view?usp=share_link)

**Activity 1.8: Brand filtered by PowerTrain type**

**Explanation video link:**

[https://drive.google.com/file/d/1Gnrj7h6A7il6p26TLTNfRVQTYnREoQwn/view?usp=share\\_link](https://drive.google.com/file/d/1Gnrj7h6A7il6p26TLTNfRVQTYnREoQwn/view?usp=share_link)

**Activity 1.9: No of models by each brand**

**Explanation video link:**

[https://drive.google.com/file/d/1-FZplgBanEa6HHql9M-lu6YchyQszskC/view?usp=share\\_link](https://drive.google.com/file/d/1-FZplgBanEa6HHql9M-lu6YchyQszskC/view?usp=share_link)

**Activity 1.10: Summary card for Different brands of EV Cars globally**

**Explanation video link:**

[https://drive.google.com/file/d/1CaL3ZLOypWIH77xmbJg4K8fKNlxavtH/view?usp=share\\_link](https://drive.google.com/file/d/1CaL3ZLOypWIH77xmbJg4K8fKNlxavtH/view?usp=share_link)

**Activity 1.11: Summary card for Different brands of EV Cars in India**

**Explanation video link:**

[https://drive.google.com/file/d/1C61Jxi4jOCdoVbrRNWluDSJse6dguMPS/view?usp=share\\_link](https://drive.google.com/file/d/1C61Jxi4jOCdoVbrRNWluDSJse6dguMPS/view?usp=share_link)

## **Milestone 5: Dashboard**

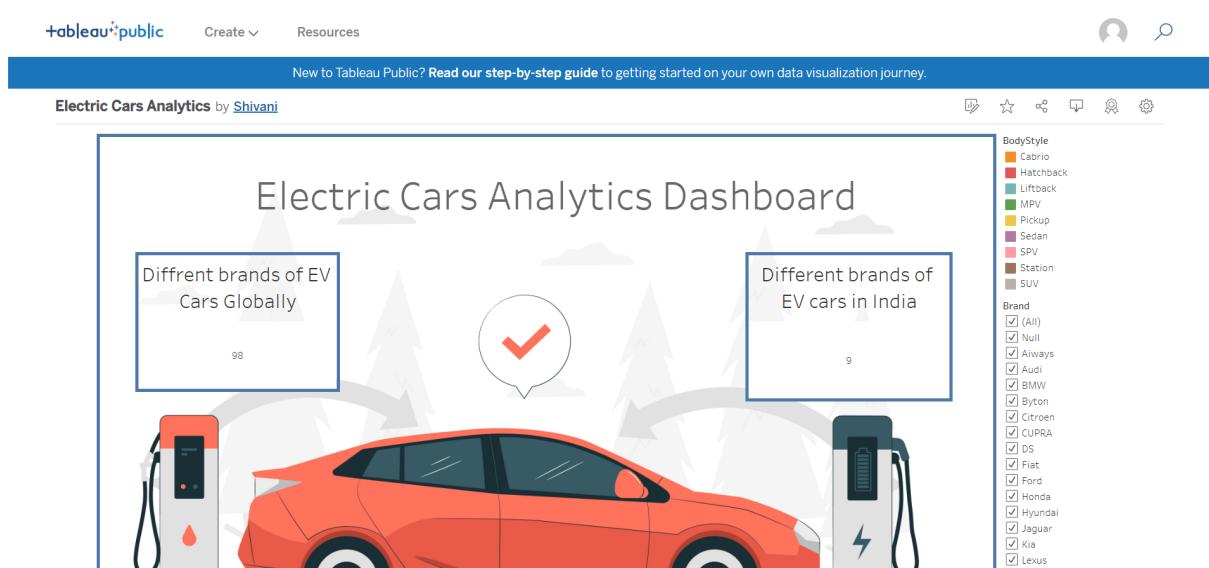
A dashboard is a graphical user interface (GUI) that displays information and data in an organized, easy-to-read format. Dashboards are often used to provide real-time monitoring and analysis of data, and are typically designed for a specific purpose or use case. Dashboards can be used in a variety of settings, such as business, finance, manufacturing, healthcare, and many other industries. They can be used to track key performance indicators (KPIs), monitor performance metrics, and display data in the form of charts, graphs, and tables.

### **Activity :1- Responsive and Design of Dashboard**

Once you have created views on different sheets in Tableau, you can pull them into a dashboard.

**Explanation video link:**

[https://drive.google.com/file/d/1R-WWO932vyqfBuGuhQsFLyfAlbbf6p\\_8/view?usp=share\\_link](https://drive.google.com/file/d/1R-WWO932vyqfBuGuhQsFLyfAlbbf6p_8/view?usp=share_link)



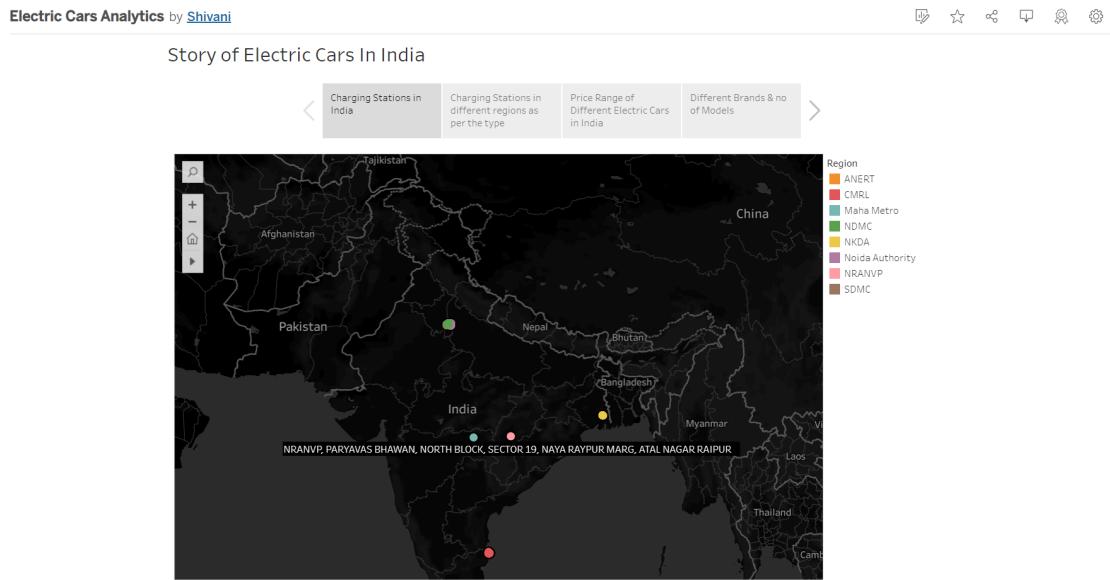
## **Milestone 6: Story**

A data story is a way of presenting data and analysis in a narrative format, with the goal of making the information more engaging and easier to understand. A data story typically includes a clear introduction that sets the stage and explains the context for the data, a body that presents the data and analysis in a logical and systematic way, and a conclusion that summarizes the key findings and highlights their implications. Data stories can be told using a variety of mediums, such as reports, presentations, interactive visualizations, and videos.

### **Activity:1- No of Scenes of Story**

**Explanation video link:**

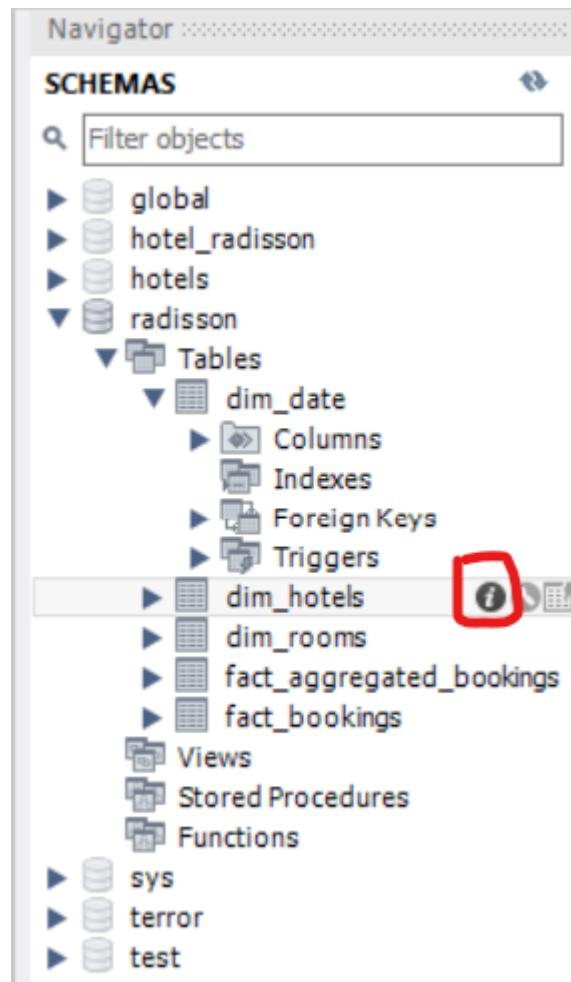
[https://drive.google.com/file/d/1BIm4nlyGNqrclvIN-PZ27-g0VUIVptCN/view?usp=share\\_link](https://drive.google.com/file/d/1BIm4nlyGNqrclvIN-PZ27-g0VUIVptCN/view?usp=share_link)



## Milestone 7: Performance Testing

### **Activity 1: Amount of Data Rendered to DB**

- The amount of data that is rendered to a database depends on the size of the dataset and the capacity of the database to store and retrieve data.
- Open the MySQL Workbench, go to the database then click to expand the tables, select the table and click on (i) button to get the information related to table such as column count, table rows etc.



This screenshot shows the MySQL Workbench main window with the 'dim\_date' table selected in the central table list. The 'Table Details' pane on the right provides specific information about the table:

Engine	InnoDB
Row format	Dynamic
Column count	4
Table rows	92
AVG row length	178
Data length	16.0 kB
Index length	0.0 bytes
Max data length	0.0 bytes
Data free	0.0 bytes
Table size (estimate)	16.0 kB
File format	
Data path	C:\ProgramData\MySQL\MySQL Server 8.0\Data\radisson\dim_date.ibd
Update time	
Create time	2022-12-03 13:23:13

The bottom left pane shows the table's columns: 'property\_id', 'property\_name', 'category', and 'city'. The bottom right pane contains tabs for 'Object Info' and 'Session'.

MySQL Workbench

mysql

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

SQL File 3\* radisson.dim\_date radisson.dim\_hotels radisson.dim\_rooms radisson.fact\_aggregated\_bookings radisson.fact\_bookings

Info Columns Indexes Triggers Foreign keys Partitions Grants DDL

mysql radisson.dim\_hotels

Table Details

Engine: InnoDB  
Row format: Dynamic  
Column count: 4  
Table rows: 25  
AVG row length: 655  
Data length: 16.0 KiB  
Index length: 0.0 bytes  
Max data length: 0.0 bytes  
Data free: 0.0 bytes  
Table size (estimate): 16.0 KiB  
File format:  
Data path: C:\ProgramData\MySQL\MySQL Server 8.0\Data\radisson\dim\_hotels.ibd  
Update time:  
Create time: 2022-12-03 10:49:55

Information on this page may be outdated. Click Analyze Table to update it.

Context Help Snippets

Object Info Session

MySQL Workbench

mysql

File Edit View Query Database Server Tools Scripting Help

Navigator Schemas

SQL File 3\* radisson.dim\_date radisson.dim\_hotels radisson.dim\_rooms radisson.fact\_aggregated\_bookings radisson.fact\_bookings

Info Columns Indexes Triggers Foreign keys Partitions Grants DDL

mysql radisson.dim\_rooms

Table Details

Engine: InnoDB  
Row format: Dynamic  
Column count: 2  
Table rows: 4  
AVG row length: 4096  
Data length: 16.0 KiB  
Index length: 0.0 bytes  
Max data length: 0.0 bytes  
Data free: 0.0 bytes  
Table size (estimate): 16.0 KiB  
File format:  
Data path: C:\ProgramData\MySQL\MySQL Server 8.0\Data\radisson\dim\_rooms.ibd  
Update time:  
Create time: 2022-12-03 10:50:30

Information on this page may be outdated. Click Analyze Table to update it.

Context Help Snippets

Object Info Session

This screenshot shows the MySQL Workbench interface. The main window displays the 'radisson.fact\_aggregated\_bookings' table details. The table has an InnoDB engine, 5 columns, and 8167 rows. The columns are fact\_aggregated\_bookings, fact\_bookings, dim\_date, dim\_rooms, and property\_id. The table was created on 2022-12-03 14:41:24. The 'Table Details' pane provides a summary of the table's structure and performance metrics. The 'Columns' pane shows the schema definition:

Column	Type	Properties
property_id	int	
property_name	text	
category	text	
City	text	

The 'Output' pane at the bottom shows the results of an 'Analyze Table' operation.

This screenshot shows the MySQL Workbench interface. The main window displays the 'radisson.fact\_bookings' table details. The table has an InnoDB engine, 12 columns, and 51957 rows. The columns are fact\_aggregated\_bookings, fact\_bookings, dim\_date, dim\_hotels, dim\_rooms, fact\_bookings, property\_id, property\_name, category, City, and check\_in. The table was created on 2022-12-03 10:51:45. The 'Table Details' pane provides a summary of the table's structure and performance metrics. The 'Columns' pane shows the schema definition:

Column	Type	Properties
property_id	int	
property_name	text	
category	text	
City	text	

The 'Output' pane at the bottom shows the results of an 'Analyze Table' operation.

## Activity 2: Utilization of Data Filters

# Electric Cars Analytics Dashboard

Different brands  
of EV Cars  
Globally

98



Different brands  
of EV cars in  
India

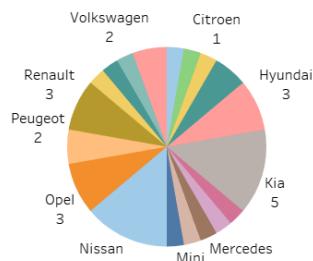
9

Brands according to bodystyle

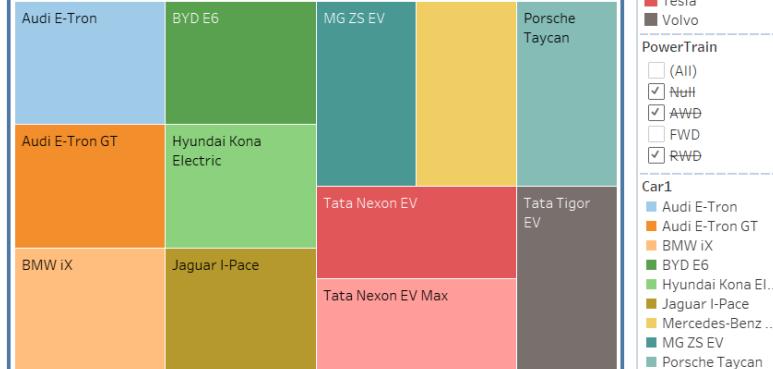
Top 10 most efficient brands

Brand

Brand filtered by PowerTrain type



Different EV Cars in India



Top speed for different brands

## Activity 3: No of Calculation Fields

BodyStyle

Cabrio

Hatchback

Liftback

MPV

Pickup

Sedan

SPV

Station

SUV

Brand

(All)

Null

Aiways

Audi

BMW

Byton

Citroen

CUPRA

DS

Fiat

Ford

Honda

Hyundai

Jaguar

Kia

Lexus

Lightyear

Lucid

Mazda

Mercedes

MG

Mini

Nissan

Opel

PowerTrain

All

Null

AWD

FWD

RWD

Car1

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

```

Abc power
Abc PowerTrain
=Abc Price Range - Split 3   !
=## Price Range - Split 3 ... !
Abc PriceinGermany
Abc PriceinUK
Abc Range1
Abc RapidCharge
Abc Region
Abc Segment
Abc service
Abc Style1
Abc Subtitle
Abc Table Name
=Abc Top_speed
Abc TopModel
Abc TopSpeed
Abc Transmission
Abc Type
Abc VehicleType
Abc Measure Names
  # AccelSec
  =## count
  =## Count_powertrain
  # Efficiency_WhKm
  # FastCharge_KmH
  @ Latitude

```

## Activity 4: No of Visualizations/ Graphs

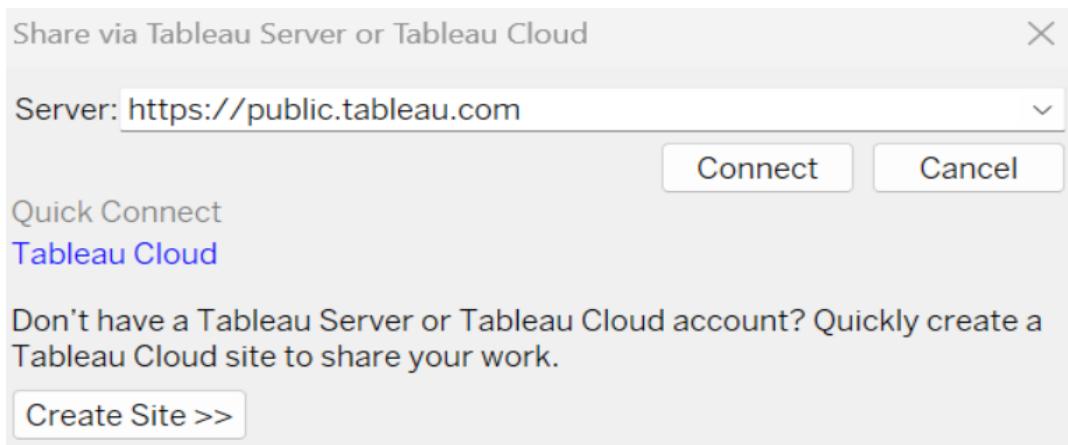
1. Charging Stations by region and type in India
2. EV Charging stations map of India
3. Different EV cars in India
4. Top speed for different Brands
5. Price for different cars in India
6. Top 10 most efficient EV Brands
7. Brands according to Bodystyle
8. Brand filtered by PowerTrain type
9. No of models by each brand
10. Summary card for Different brands of EV Cars globally
11. Summary card for Different brands of EV Cars in India

## Milestone 8: Web integration

Publishing helps us to track and monitor key performance metrics, to communicate results and progress. help a publisher stay informed, make better decisions, and communicate their performance to others.

### **Publishing dashboard and reports to tableau public**

Step 1: Go to Dashboard/story, click on share button on the top ribbon



Give the server address of your tableau public account and click on connect.

#### Explanation Video:-

[https://drive.google.com/file/d/1HU4uV8P8Hc53eu0XxYHPRIu51YFK-8NA/view?usp=share\\_link](https://drive.google.com/file/d/1HU4uV8P8Hc53eu0XxYHPRIu51YFK-8NA/view?usp=share_link)

**Step 2:** Once you click on connect it will ask you for tableau public user name and password



Once you login into your tableau public using the credentials, the particular visualization will be published into tableau public

**Note: While publishing the visualization to the public, the respective sheet will get published when you click on share option.**

#### Activity 1: Dashboard and Story embed with UI With Flask

Explanation video link:

[https://drive.google.com/file/d/1gp1P4Z0kIYReDsWbGK-HGOd3uRS5QjR1/view?usp=share\\_link](https://drive.google.com/file/d/1gp1P4Z0kIYReDsWbGK-HGOd3uRS5QjR1/view?usp=share_link)

E-CarStart

Home About Dashboard Story Team Contact Get Started

We offer modern Analytics solutions for Electric Vehicles

Get Started →



E-CarStart

Home About Dashboard Story Team Contact Get Started

E-CAR START

E-Cart Start is a complete analytics tool for electric vehicles all over the world.

The Electric Vehicle (EV) is not new, but it has been receiving significantly more attention in recent years. Advances in both EV analytics and battery technologies have led to increased automotive market share. The modern mechatronic vehicle marries electrical storage and propulsion systems with electronic sensors, controls, and actuators, integrated closely with software, secure data transfer, and data analysis, to form a comprehensive transportation solution. Advances in all these areas have contributed to the overall rise of EVs, but the common thread that runs through all these elements is data analytics.

Read More →



DASHBOARD



## DASHBOARD

## E-Car Start Analytics Dashboard

## Electric Cars Analytics Dashboard

Diffrent brands of EV Cars Globally

98

Different brands of EV cars in India

9

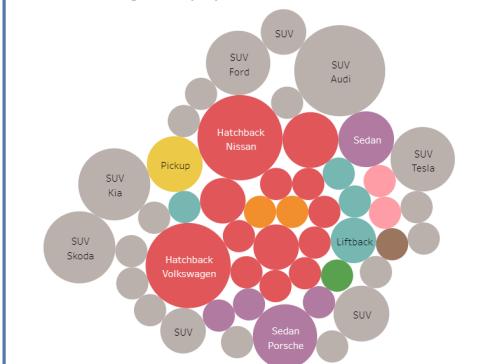


BodyStyle  
 Cabrio  
 Hatchback  
 Liftback  
 MPV  
 Pickup  
 Sedan  
 SPV  
 Station  
 SUV

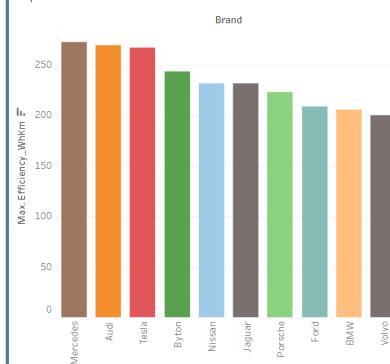
Brand  
 (All)  
 Null  
 Aiways  
 Audi  
 BMW  
 Byton  
 Citroen  
 CUPRA  
 DS  
 Fiat  
 Ford  
 Honda  
 Hyundai  
 Jaguar  
 Kia  
 Lexus



Brands according to bodystyle



Top 10 most efficient brands



Brand  
 Mazda  
 Mercedes  
 MG  
 Mini  
 Nissan  
 Opel  
 Peugeot  
 Polestar  
 Porsche  
 Renault  
 SEAT  
 Skoda  
 Sono  
 Tesla  
 Volkswagen  
 Volvo

Brand  
 Audi  
 BMW  
 Byton  
 Ford  
 Jaguar  
 Mercedes  
 Nissan  
 Porsche  
 Tesla  
 Volvo

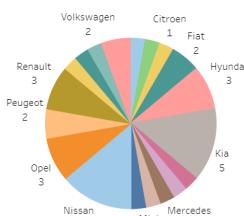
PowerTrain  
 (All)  
 AWD  
 AWB  
 FWD  
 RWD



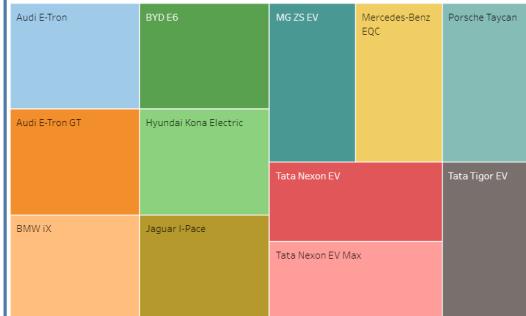
RWB

- Car1
- 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

Brand filtered by PowerTrain type



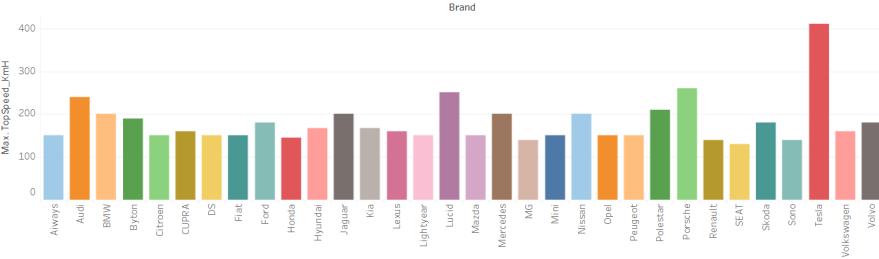
Different EV Cars in India



top speed for different brands



top speed for different brands



## FEATURES

### There are many different features of our project



## There are many different features of our project



- Analyse the current stats
- Get to know EV more
- Know about Charging Stations
- Top performing Brands
- different brands in India
- different brands Globally

### Overview of Electric Vehicle Sector

OVERVIEW PRICING

ELECTRIC



### Overview of Electric Vehicle Sector

OVERVIEW PRICING

The supply of fossil fuels is constantly decreasing. The situation is very alarming. It is time for the world to slowly adapt to electric vehicles.

**A lot of change needs to happen**

Major carmakers like Tesla and Porsche manufacture many electric vehicles.

**The improvement of battery technology in recent years has led to the higher popularity of electric vehicles.**

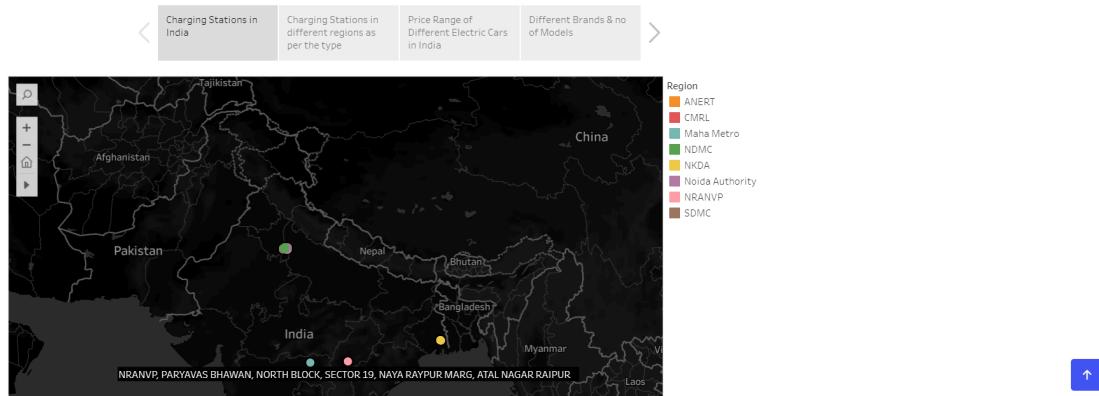
Buying an electric vehicle can be a great choice for consumers. The drive quality, low noise levels, and convenience are really great.



## STORY

## Electric vehicles Analytics Story

Story of Electric Cars In India



## TESTIMONIALS

## What they are saying about us



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**Matt Brandon**  
Freelancer



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**John Larson**  
Entrepreneur



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**Saul Goodman**  
Ceo & Founder



## TEAM

## Our hard working team

**Walter White**

Chief Executive Officer

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**Sarah Jhonson**

Product Manager

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**William Anderson**

CTO

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**Amanda Jepson**

Accountant

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## CONTACT

## Contact Us



## Address

The Smartbridge  
Hyderabad, Telangana



## Call Us

+1 5589 55488 55  
+1 6678 254445 41



## Email Us

info@example.com  
contact@example.com



## Open Hours

Monday - Friday  
9:00AM - 07:00PM



## Milestone 9: Project Demonstration & Documentation

Below mentioned deliverables to be submitted along with other deliverables

**Activity 1:- Record explanation Video for project end to end solution**

**Activity 2:- Project Documentation-Step by step project development procedure**

Create document as per the template provided