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1 INTRODUCTION

1.1 Overview

- EV's are a promising technology for achieving a sustainable transport sector in the future,due to their very low to zero carbon emissions, low noise,high efficiency, and flexibility in grid operation and integration.
- These vehicles use electricity,typically stored in a battery, to power an electric motor.
- Electric vehicle technology has advanced and rapidly since its introduction and today there are many plug-in hybrid and battery electric vehicle options available on the market.

1.2 Purpose

- Electric vehicles are more efficient and that combined with the electricity cost means that charging an electric vehicle is cheaper than filling petrol or diesel for your travel requirements.
- Using renewable energy sources can make the use of EV's more eco-friendly.
- The running cost of an EV is much lower than an equivalent petrol or diesel vehicle.
- Registration fees and road tax on purchasing electric vehicles are lesser than petrol or diesel vehicles.
- The availability is limited and their use is destroying the planet.toxic emissions from petrol and diesel vehicles lead to long-term ,adverse effects on public health.

2 Problem Definition & Design Thinking

1.3 Empathy Map

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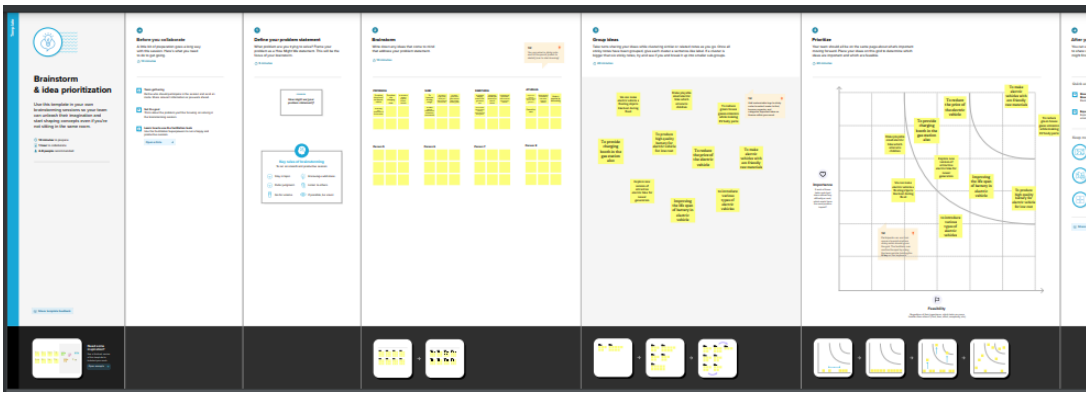
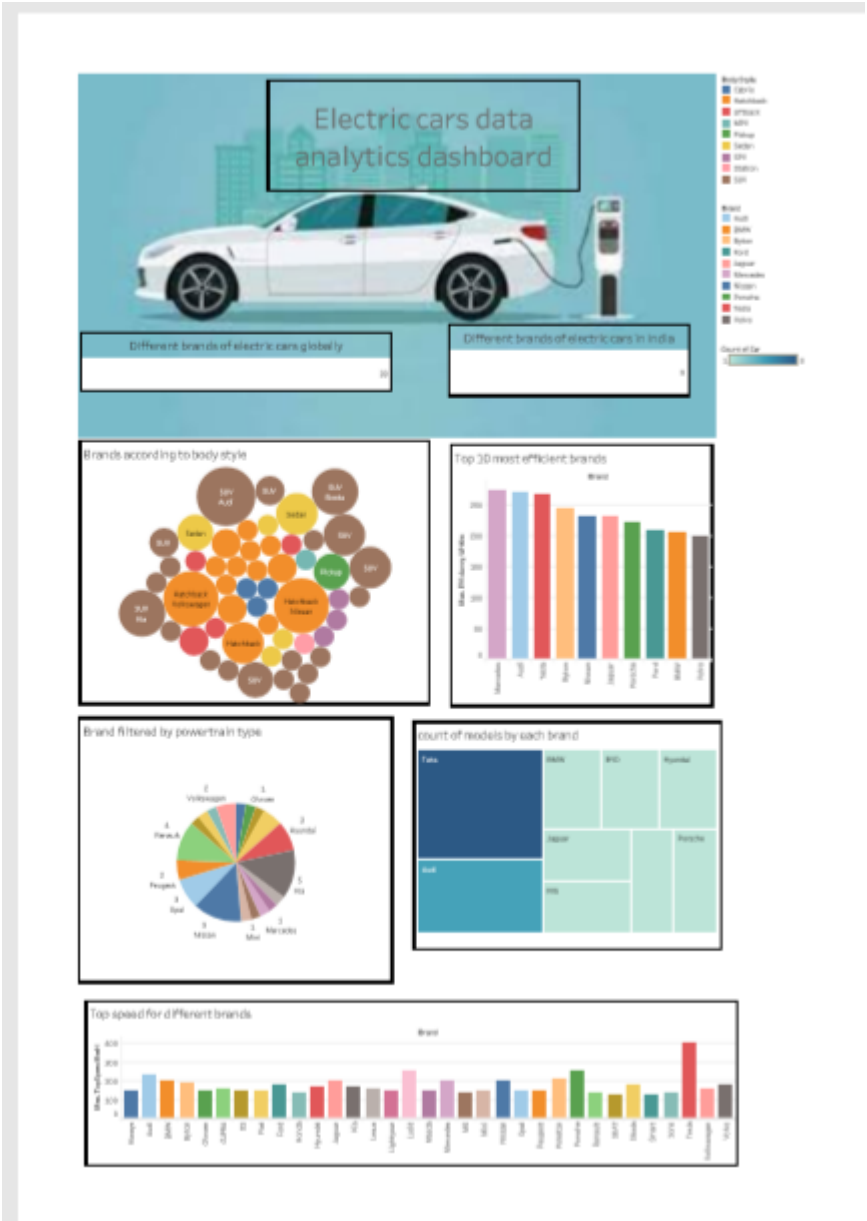
1.4 *Ideation & Brainstorming Map*



2 RESULT

We created the data visualization such as dashboard and story using the dataset provided.

DASHBOARD:



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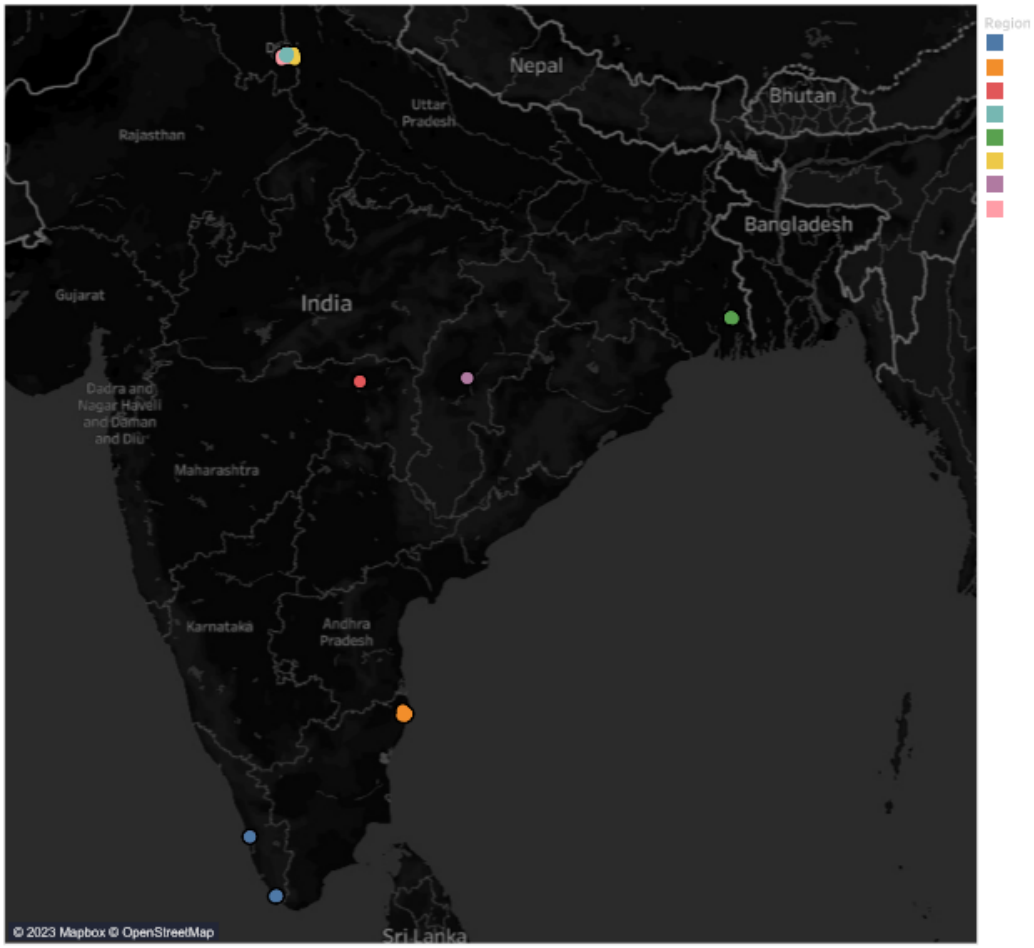
STORY:

Story 1

Charging station in India	Charging station by region and type	Price of electric cars by different brands	Different brands and number of models



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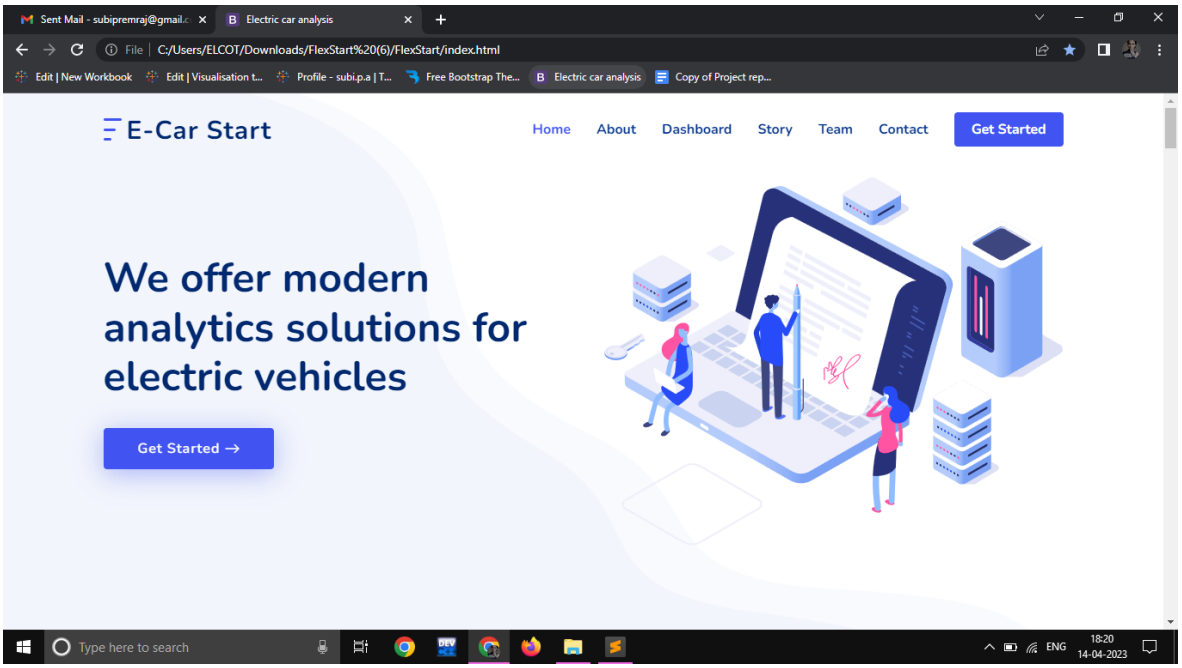
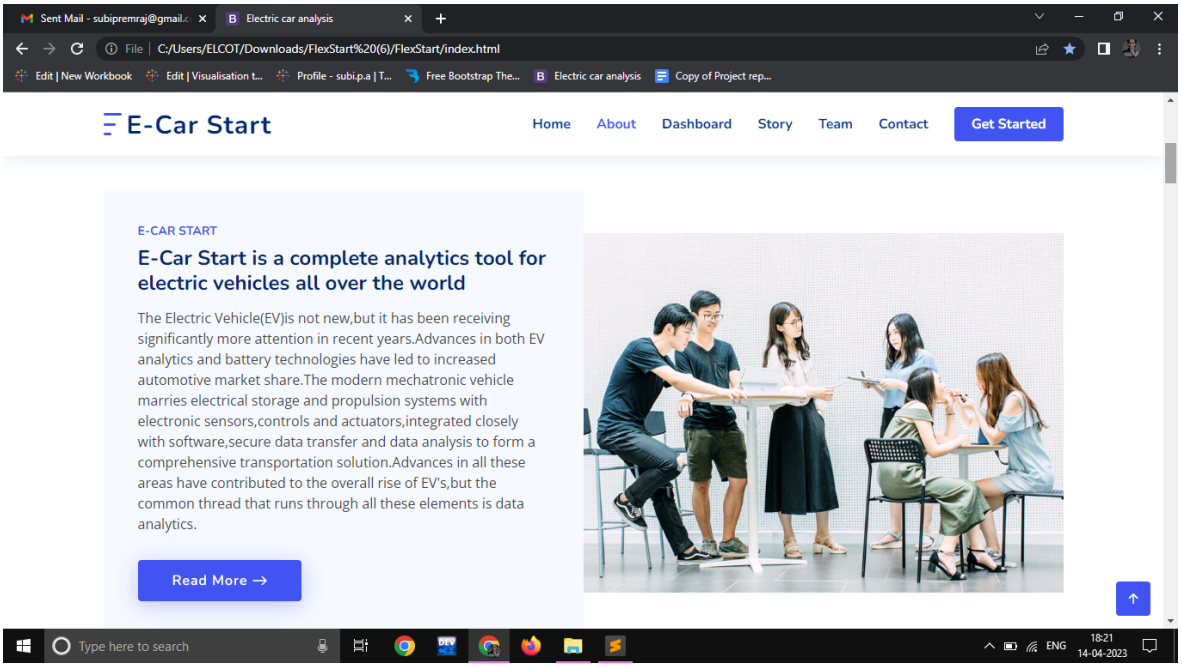
We have also embed with UI flask the dashboard and story





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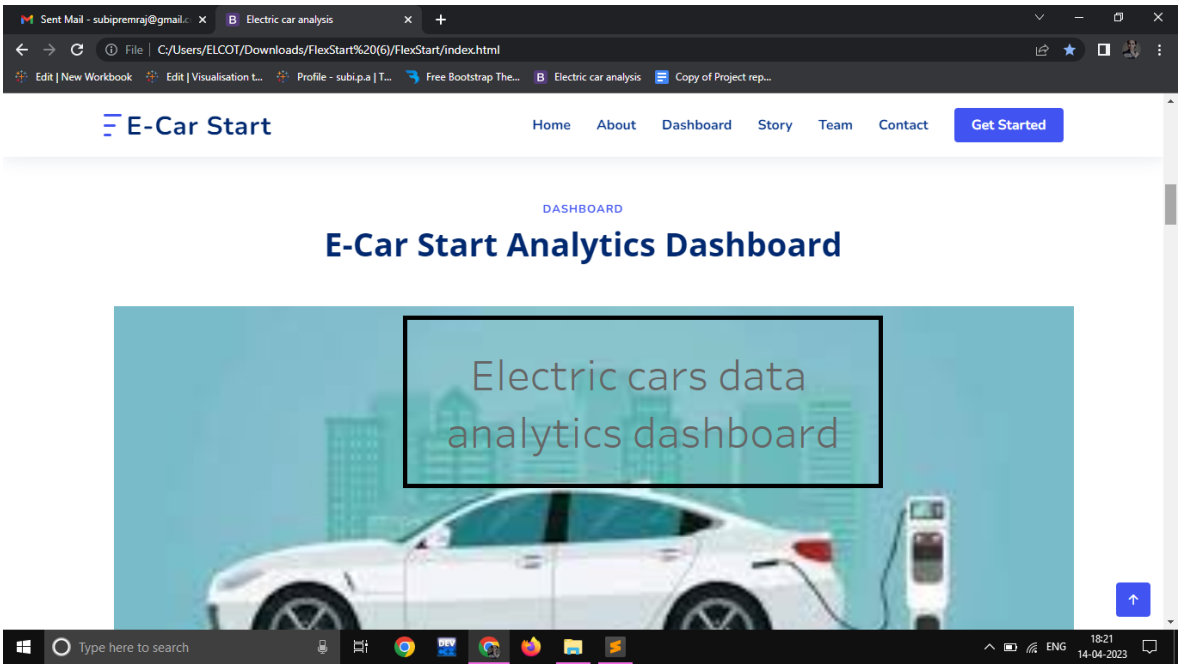

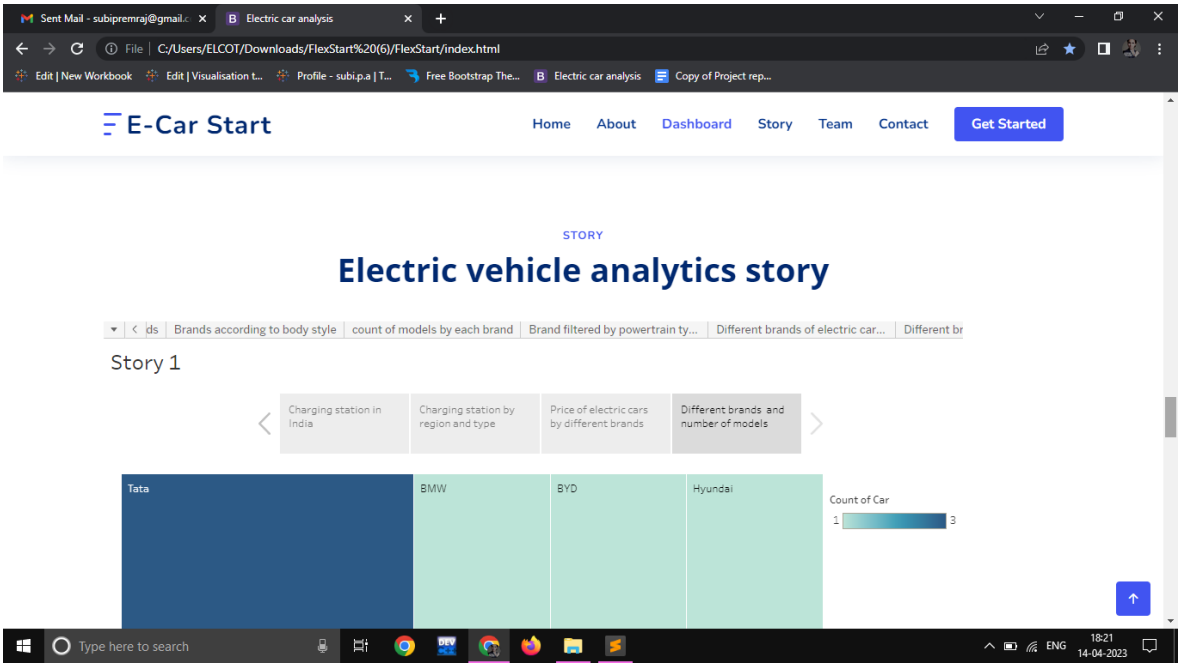

3 ADVANTAGES & DISADVANTAGES

Advantages:-

1. Lower running costs

2. Low maintenance.

3. Tax and financial benefits

4. Better performance

5. Zero tailpipe emissions

6. Easy to drive and quiet

7. Convenience of charging at home

8. No fuel, no emissions

9. Spacious cabin and more storage.

10. They are future proof

Disadvantages:-

1.EV's are part of the future,but they are not the entire future.

2. Fixing EV's is a different ballgame.

3. EV's are quick to 60 mph,but don't have high top speeds.

4. EV's aren't as enivironmenta-friendly as they seem

5. Replacing a battery is an inexpensive affair.

6. EV's are costlier than equivalent ICE cars.

7. The longevity of batteries is still a question.

8. Very few EV's offr 400+ miles of range.

9.Not enough charging stations to cater the EV-Boom.

4 APPLICATIONS

*Consumer electronics.

*Public transportation.

*Aviation.

*Electricity grid.

*Renewable Energy storage.

*Military.

*Spaceflight.

*Wearable technology.

5 CONCLUSION

We came across a lot of information related to EV and its charging stations,different brands etc. . Also we have used a graph for better understanding.

6 FUTURE SCOPE

1. Racing
2. Motorcycles
3. Electric Semi-Trucks
4. Boating
5. Airplanes

etc.