

PROJECT REPORT

1.1 Overview

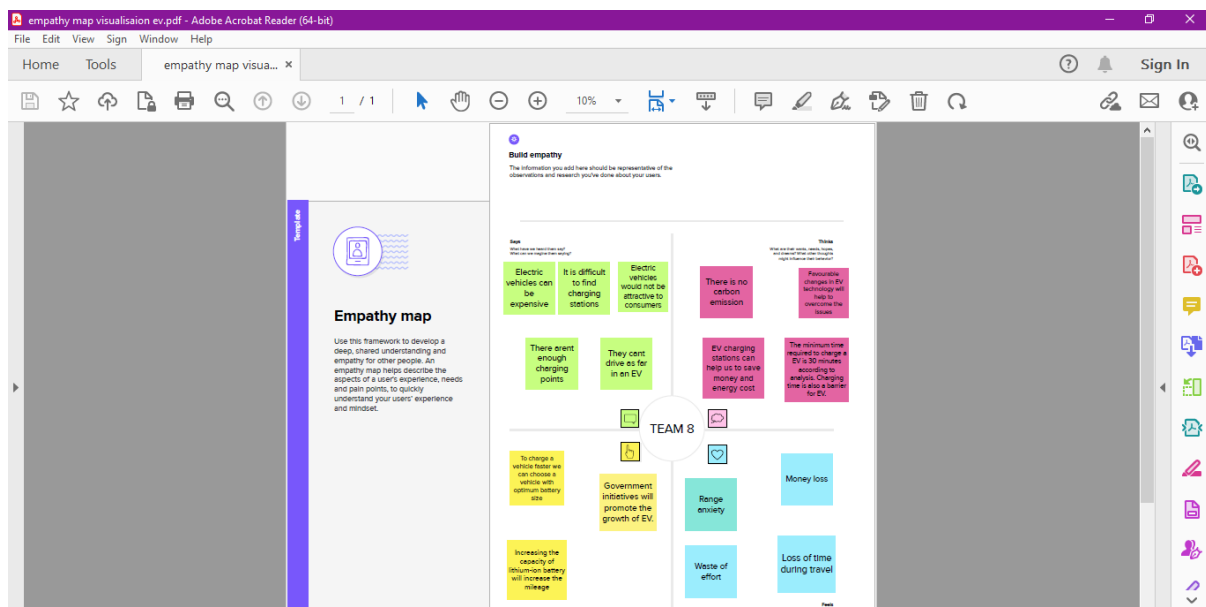
In this project, we analyze and visualize the range and charge of electric vehicles in India.

1.2 Purpose

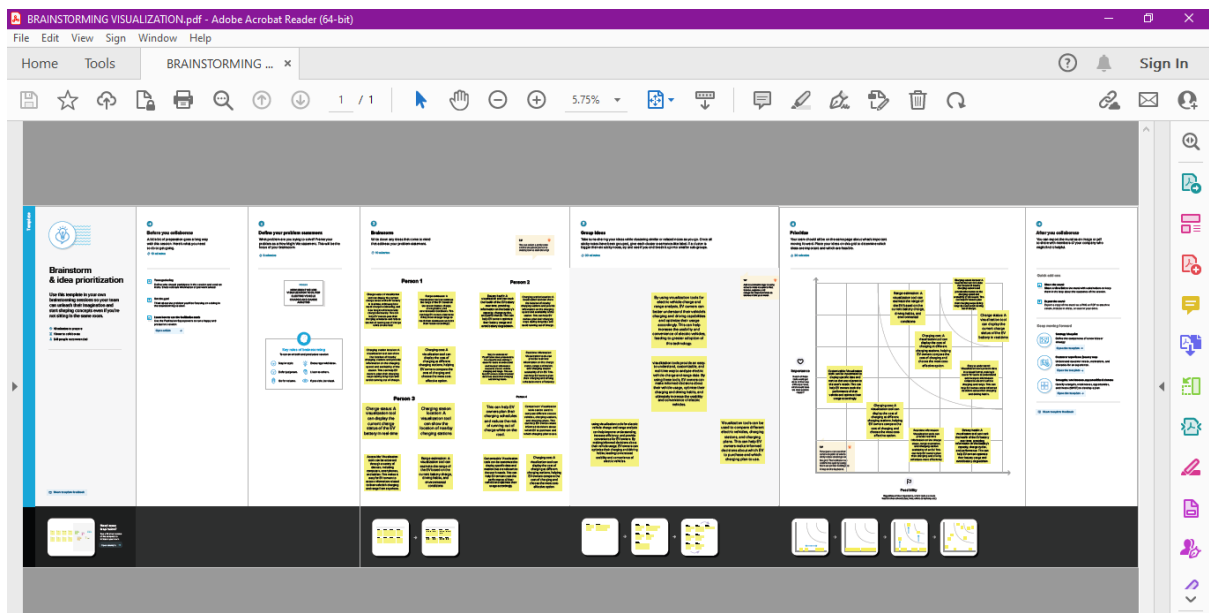
The uses of visualizations of electric vehicles in India could help to reduce emission and depletion of natural resources.

2. PROBLEM DEFINITION AND DESIGN THINKING

2.1 Empathy map

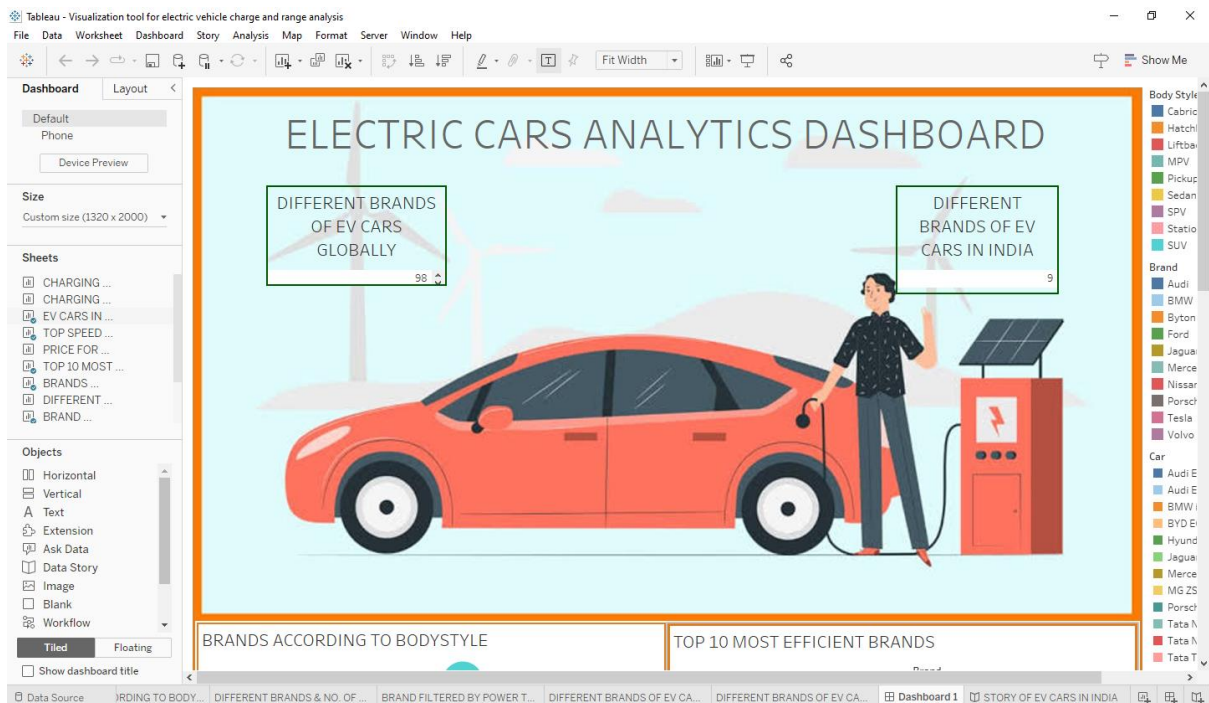


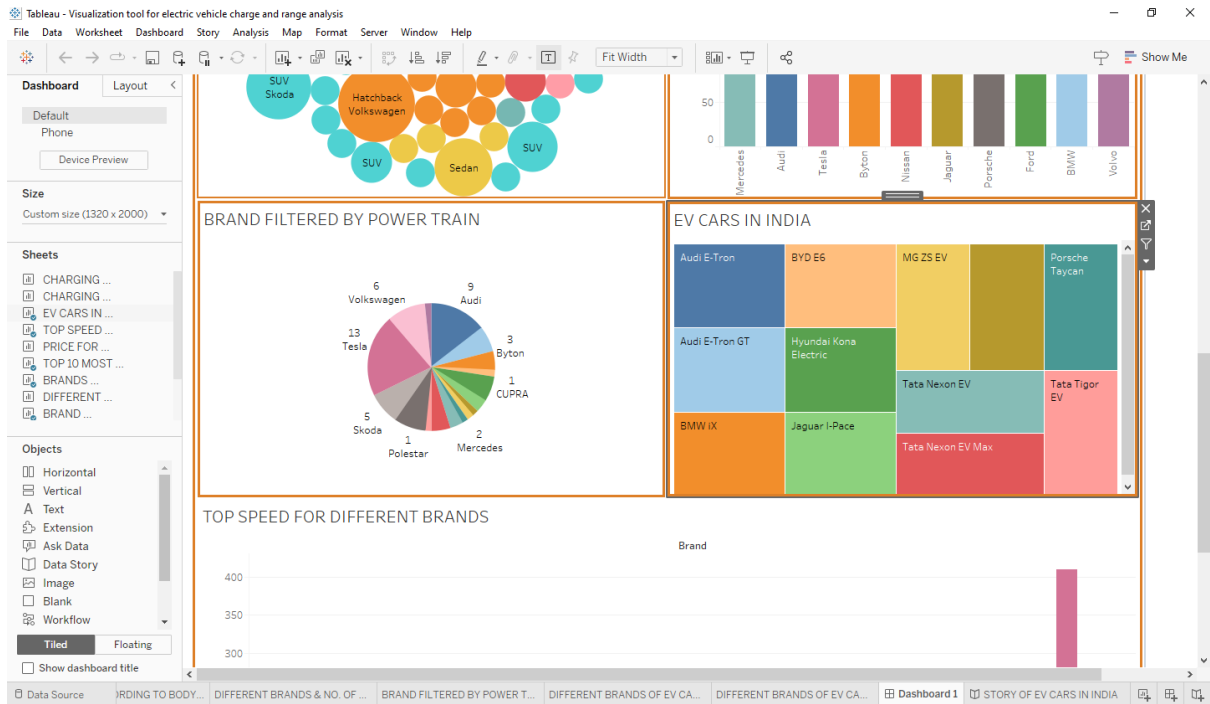
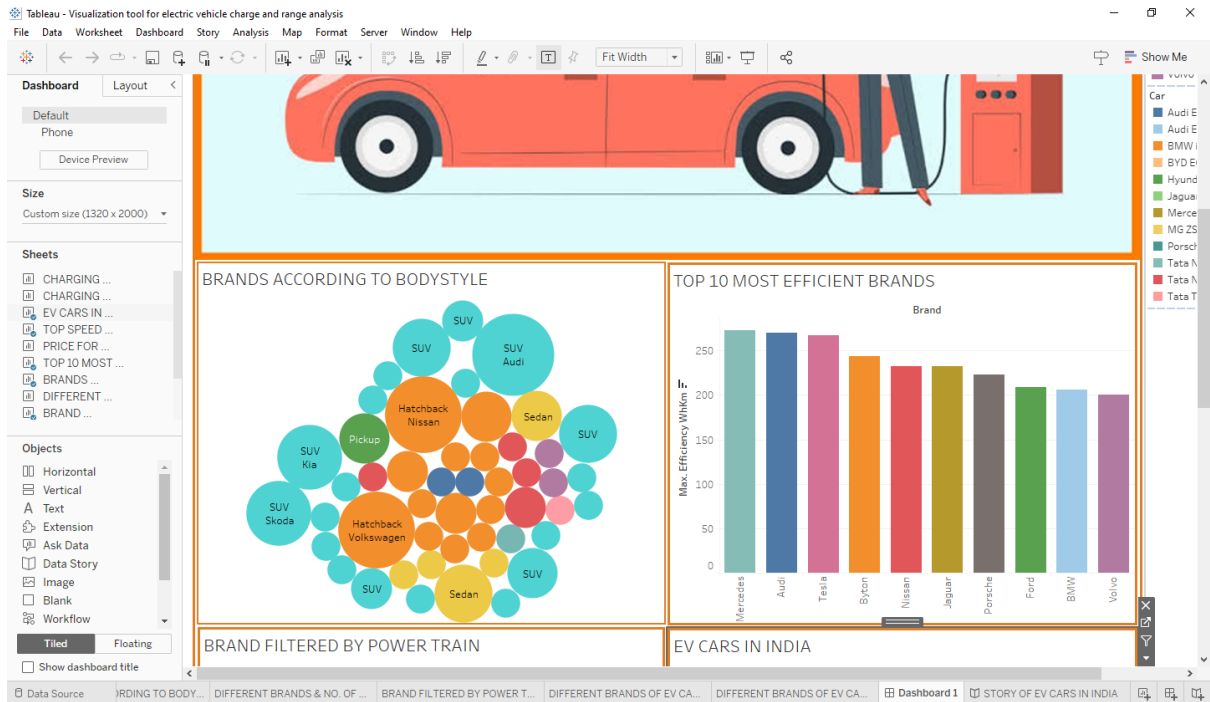
2.2 Ideation and Brainstorming Map

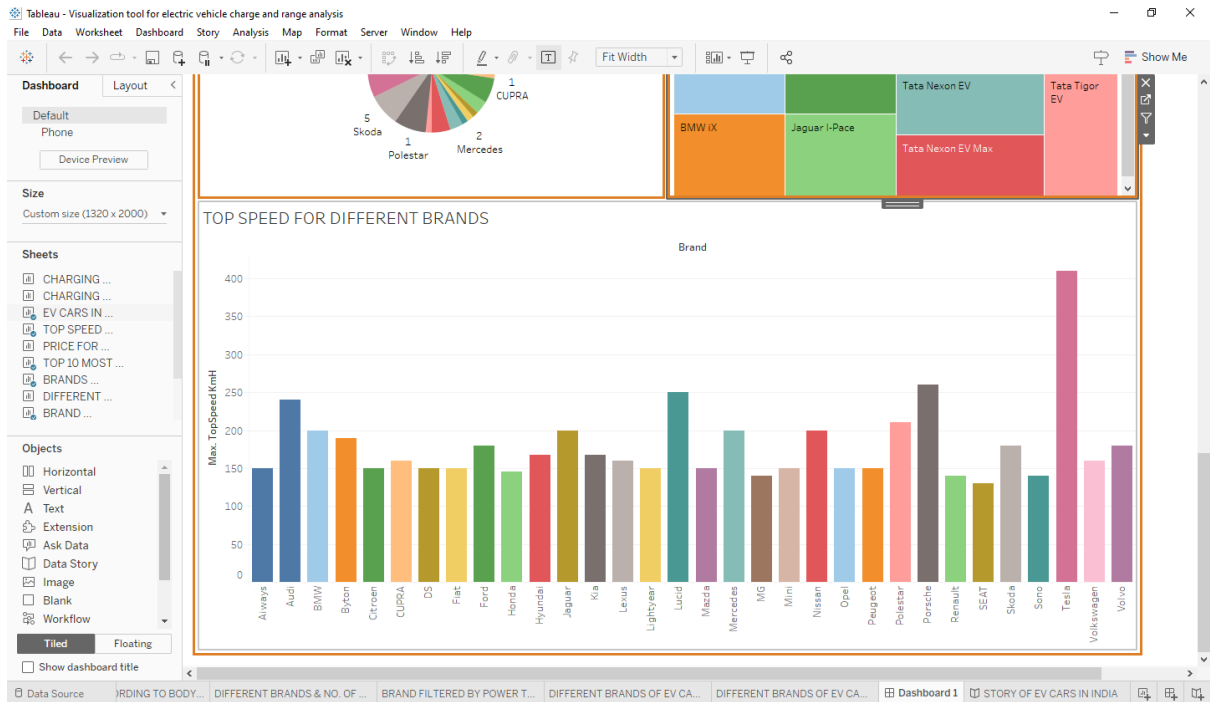


3. RESULT

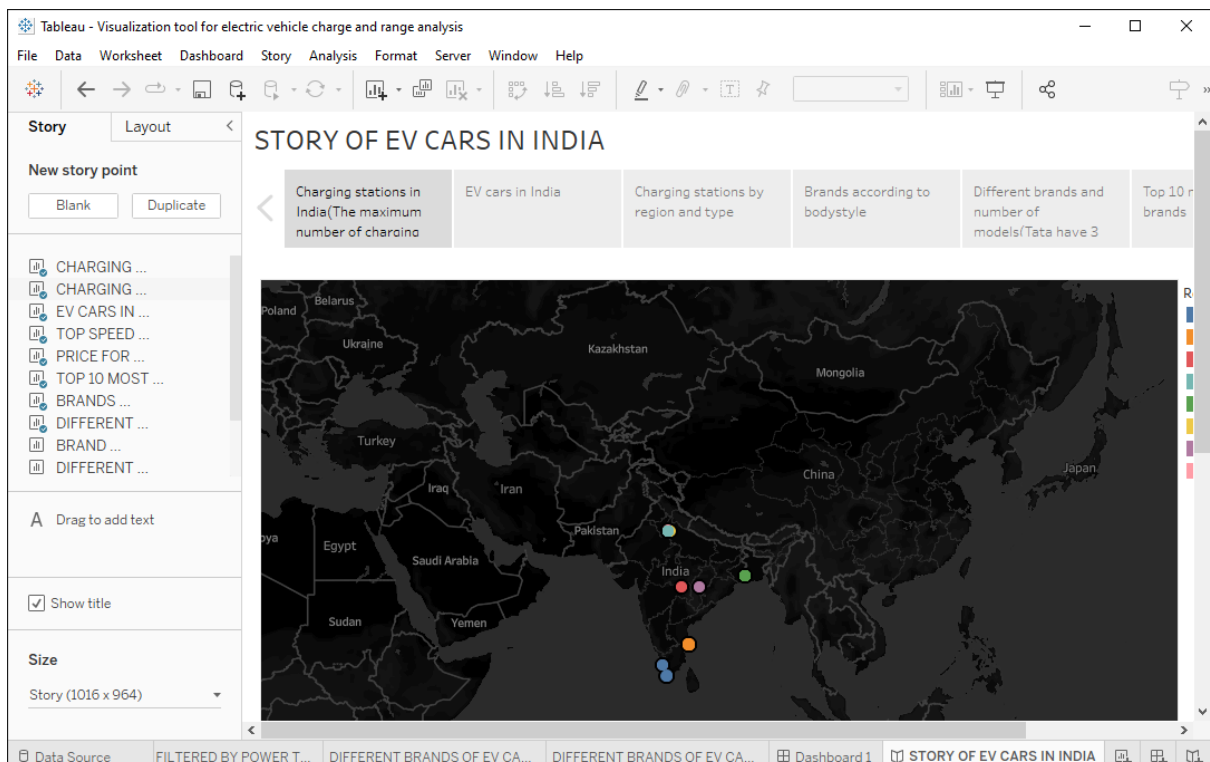
DASHBOARD



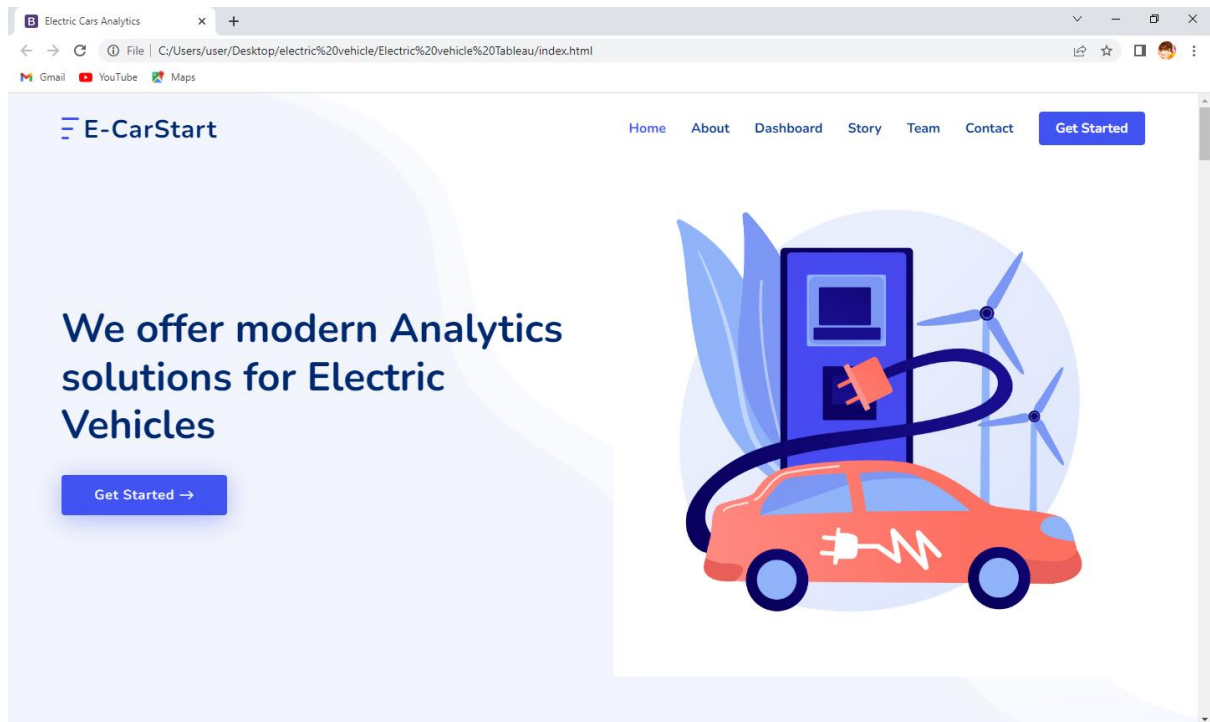




STORY



WEB INTEGRATION



4.ADVANTAGES AND DISADVANTAGES

ADVANTAGES

Data visualization can help identify patterns and trends that may not be immediately apparent in raw data. It can also help in communicating with complex information in more accessible way.

DISADVANTAGES

Visualizations can be limited by the data that is available. If the data does not capture all relevant aspects of EV charging and range analysis, then the visualizations may not provide a complete picture of the situation. With the large amounts of data that are generated during EV charging and range analysis, it can be easy to overwhelm viewers with too much information. This can make it difficult for users to identify important trends and patterns.

5. APPLICATIONS

This visualization can help to improve range estimates and identify factors that impact range, such as driving speed and temperature. This information can be used to provide more accurate range estimates to drivers and to inform vehicle design and battery technology improvements. Visualization can be used to educate consumers about the benefits of electric vehicles and to dispel common myths about electric vehicle performance.

6. CONCLUSION

In conclusion, the use of visualization in electric vehicle charge and range analysis can help to unlock the full potential of electric vehicles, improve their performance and range, and support their continued growth and adoption.

7. FUTURE SCOPE

The future scope of visualization of electric vehicle charge and range analysis is vast with the increasing popularity of electric vehicles, there is a growing need for better charging infrastructure. The visualization tool can help to identify patterns in charging behavior that can be used to optimize charging infrastructure.