Visualization Tool For Electric Vehicle Charge And Range Analysis

Introduction

Overview;

* *An Electric Vehicles are incredibly ecologicall benificial they don't utilize any fossilfuell sucUtilize a rechargeable battory backage to power the Electric motor rather than a combustion engine. The Electic Cars of 100% Ego_friendly as they run on the electricaly powered engine, they don't emit the toxic gases or smooke in environment as they run on clean energy source. They are swiching to an instantly eleminate all toxic tailpipe pollution such as nitrogen oxides,Carban monoxide & Hydro carban etc.....*

Purpose;

- *The study of Visualization tools for Electric Vehicles will help to know that it doesn't Emit pollutence. It is also keeper to charge our electric car than spent money on gas for a regular car. This One of the way to reduce pollution.*

Problem Definition & Design thinking ;

Empothy Map;

Build empathy

The information you add here should be representative of the observations and research you've done about your users.

Says

An eletric vechilces is either partially or entirely powered by electricity.

Electric cars are utilize a rechargeable battery pack to power the eletric motor rather than a combution .

Electric vechiles are the keys techonology to decarbonize road transport ,a sector that accounts for 16% of global emissions.

Electric vehicles have low running costs as they have less moving parts for maintaining and also very environmentally friendly as they use little or no fossil fuels.

Thinks

Electric vehicles use electricity to charge their batteries instead of using fossil fuels like petrol or diesle.

Electric vehicles are more efficient , and that combined with the electricity cost means that charging an electricity vehicles is cheaper that filling petrol or diesel for your travel requirements.

The battery pack is the most important component of an electric car. It stores electrical energy and powers the eletric motors. The battery pack is also the most expensive component of electric vehicles.

Electric vehicles are a faster mode of transport. An electric automobiles are paster than gasoline-powered vehicles, which is one of its amazing facts.

Visualization Tool for electric vechicle charge and range analysis

Electric and hybrid vehicles lack gears. They power an electric motor, which rotates the wheels, by storing the electricity in a rechargeable battery.

Store energy from renewables - -both on and off-grid such as solar or wind and use it at a later stage when no renewable energy sources are available.

Driving an electric vehicle can help you reduce your carbon footprint because there will be zero tailpipe emissions.

Their carbon emissions can be worse than gasolin e-powered cars. would not be attractive to consumer.

Electric cars are 100 percent eco-friendly as they run on electrically powered engines.It does not emit toxic gases or smoke in the environment as it runs on a clean energy soures.

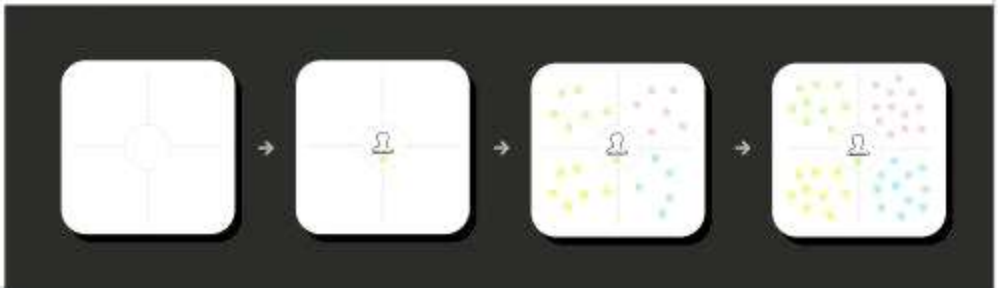
Thanks to the advent of path breaking EV tecnologies in india as well as the world and the willingness of share these tecnologies for the global good has led to low manufacturing and driving costs.

Does

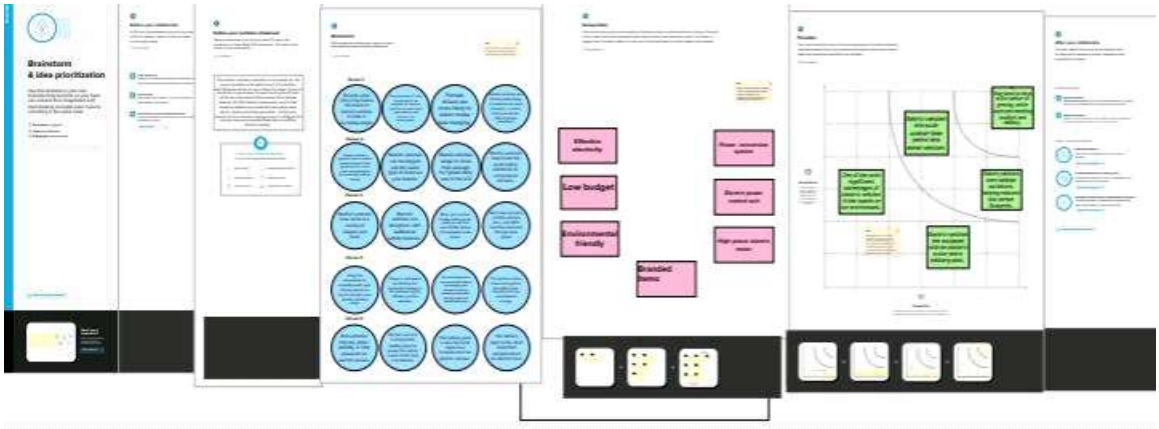
Lower running costs. Since you are not paying for petrol or diesel to keep your electric vehicle running, you save a lot of money on fuel.

Feels

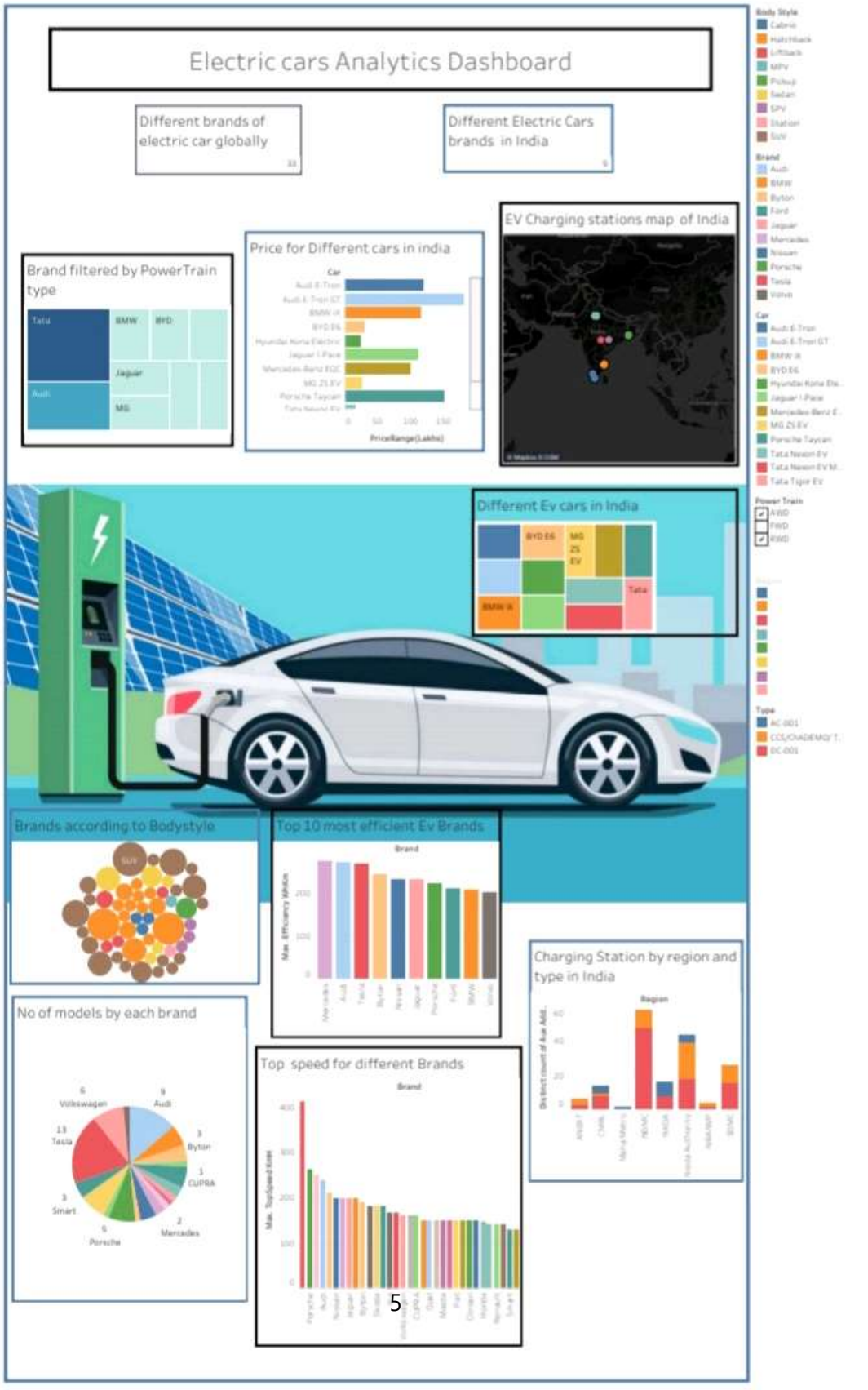
Despite what many may believe, the future of electic vehicles in India is incredibly bright.



Ideation & Brainstroming Map;



Result;


Electric cars Analytics Dashboard
Different brands of electric car globally
Different Electric Cars brands in India
EV Charging stations map of India
Brand filtered by PowerTrain type
Price for Different cars in india
Different Ev cars in India
Brands according to Bodystyle
Top 10 most efficient Ev Brands
Charging Station by region and type in India
No of models by each brand
Top speed for different Brands

Advantage&Disadvantage of Electric vehicles;

Advantages;

An electric car can be a greate way for you, as a consumers , to save a lot of money on gas. However, there are so many different reason why you should invest in an electric car in the Modern_Day of technology.

. Eco_friendly: Because electric vehicles don't utilize fuel for combustion, they are no emission or gas exhaust.

. Renewable energy source: Electric vehicle run on renewable power, Which reduce the world's fossil fuel stocks.

. Less noice and smoother motions: Driving an electric car is significantly smoother because they lack fast moving elements, they are quieter and produce less noice.

Disadvantages;

Although the evidence of the positives has the become very clear, they are also some down side that each individual needs to consider before they decide to make an electric car their next big invesment.

. Recharging take time: unlike conventional automobiles, Which require only a few minutes to replenish their gas tanks, Charging an electric vehicles take minutes hour.

. Limited Options_Currently, there are not many electric car model to pick from interm of appearance, style, or customized variation .

. Less driving Range_when compared to conventional automobiles, electric vehicles have a shorter driving range.

Application;

Nitrous oxide (NOx) arises from the high-Temperature combus tion of fossil fuels and further contributes to ozone generation. Indian cities like New Delhi, Bangalore, Mumbai, and Kolkata have some of the highest sources of NOx in the country- linked exclusively to vehiclar pollution. An excess amount of NOx gives riese to ground-Level ozone. Although not directly emitted from transport, this deadly secondary gas a highly correlated with respiratory diseases and asthma upon creation. If we use electric vehicles in such cities it helps to reduced pollution.

Conclusion;

Electric vehicles are eco_friendly. Use of electric vehicles its good for environment as well as human life. Electric vehicles are new technology. This sector will grow day by day which will generate lot of employment in this field. Electric vehicles will reduce the dependency of a nation on petroleum export countries. It will helps to reduce the pollution.

Future Scope;

**** One approach to reduce the Green house gas emissions in the transport sector to change transportation modes to become more electric.***

**** Battery electric vehicle are the most desirable form of passenger cars, because of their zero tailpipe emission and their potential of 100% redution of CO2 emissions.***

**** Steps taken with data from the project will help in protecting our environment from pollution and maintain our budget.***