# VISUALIZATION TOOL FOR ELECTRIC VEHICLE CHARGE AND RANGE ANALYSIS

## 1. INTRODUCTION:

**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.**

## 1.1. OVERVIEW:

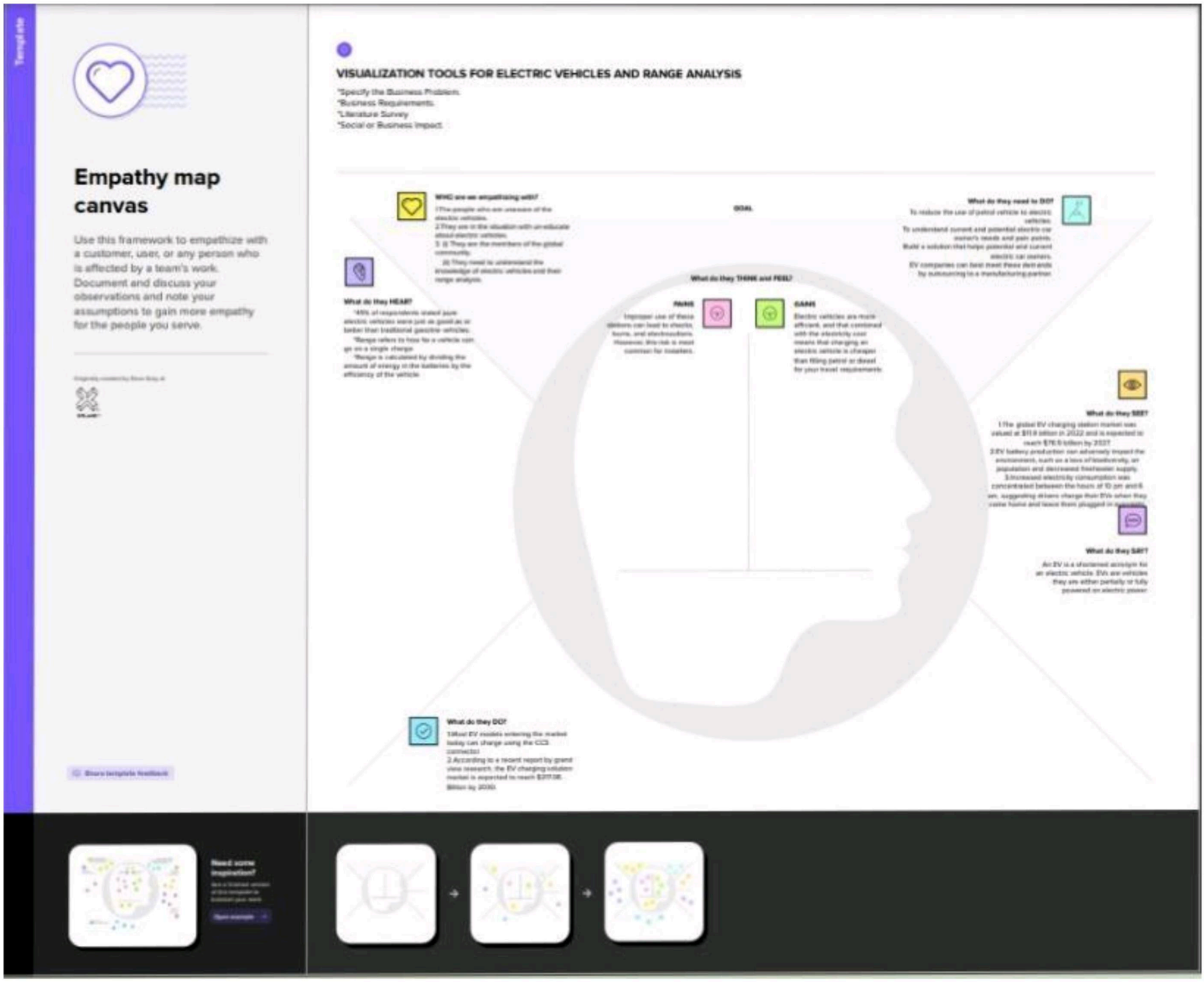
**The electric vehicle (EV) is not new, but it has been receiving significantly more attention in recent years. Advances in both EV analytics and battery technologies have led to increased automotive market share.**

## 1.2. PURPOSE:

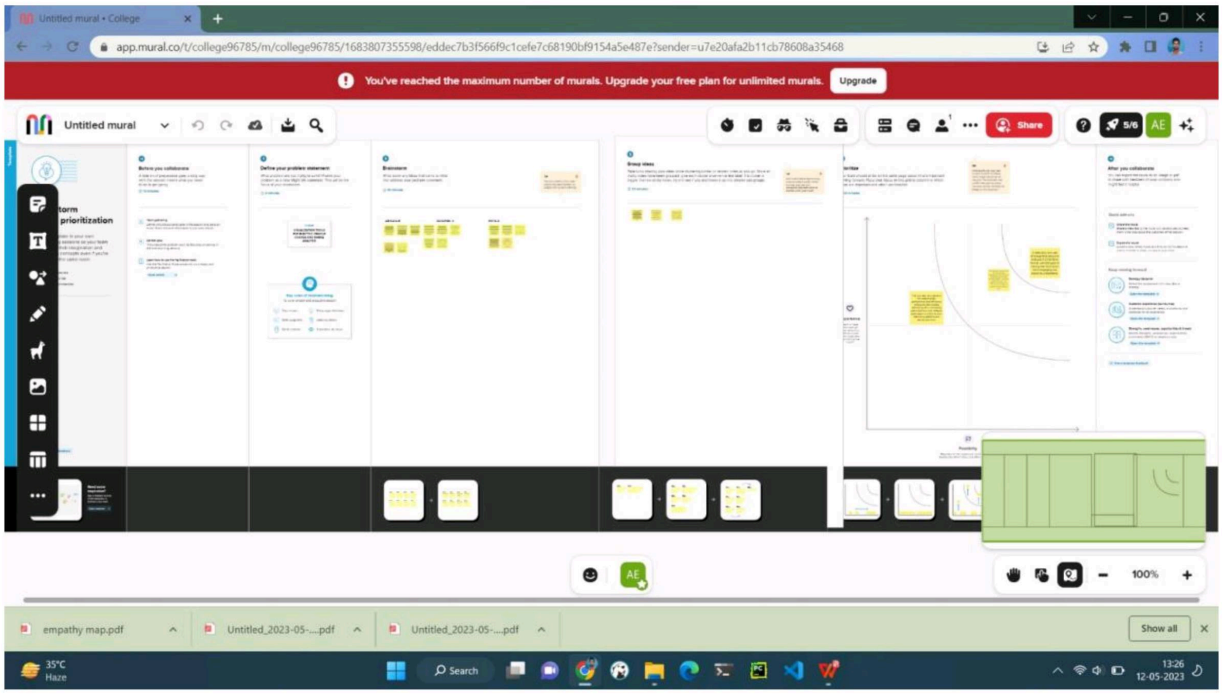
**The new EV's are combined Electric storage and propulsion systems with electronic sensors, controls, and actuators, integrated closely with software, secure data transfer to form a comprehensive transportation solution.**

# PROBLEM DEFINITION AND DESIGN THINKING

## 2.1 Empathy map

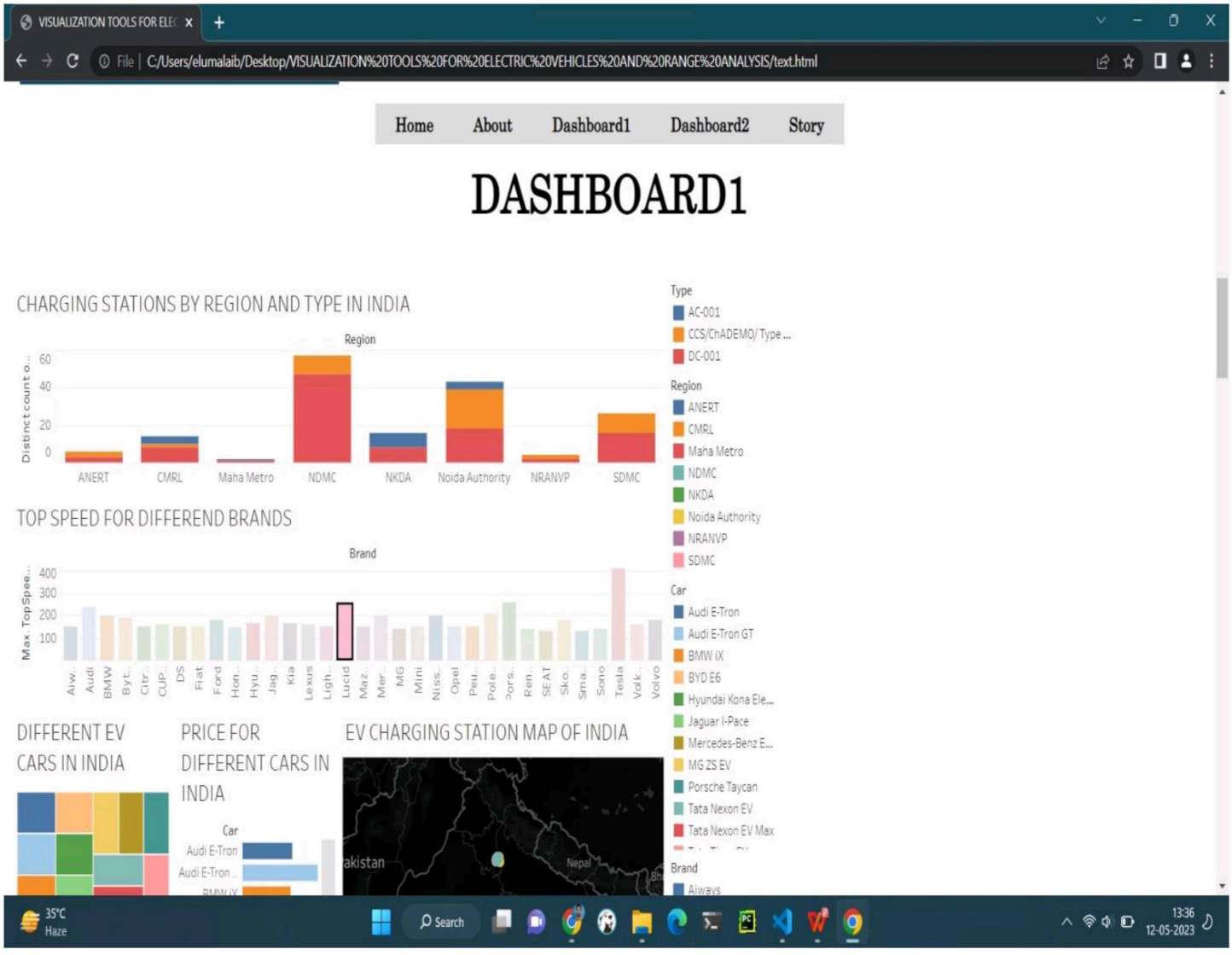


# 2.2 BRAIN STORMING

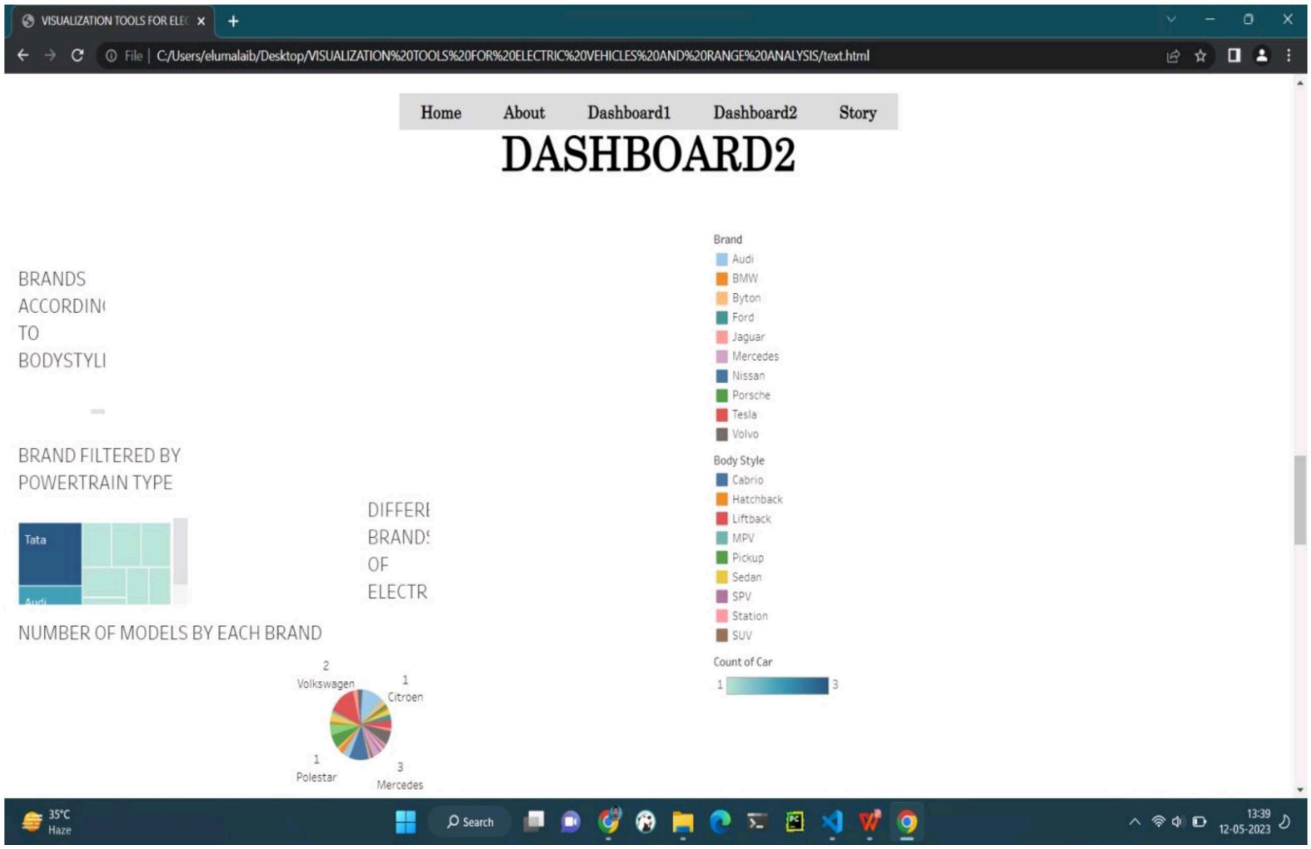


RESULT:

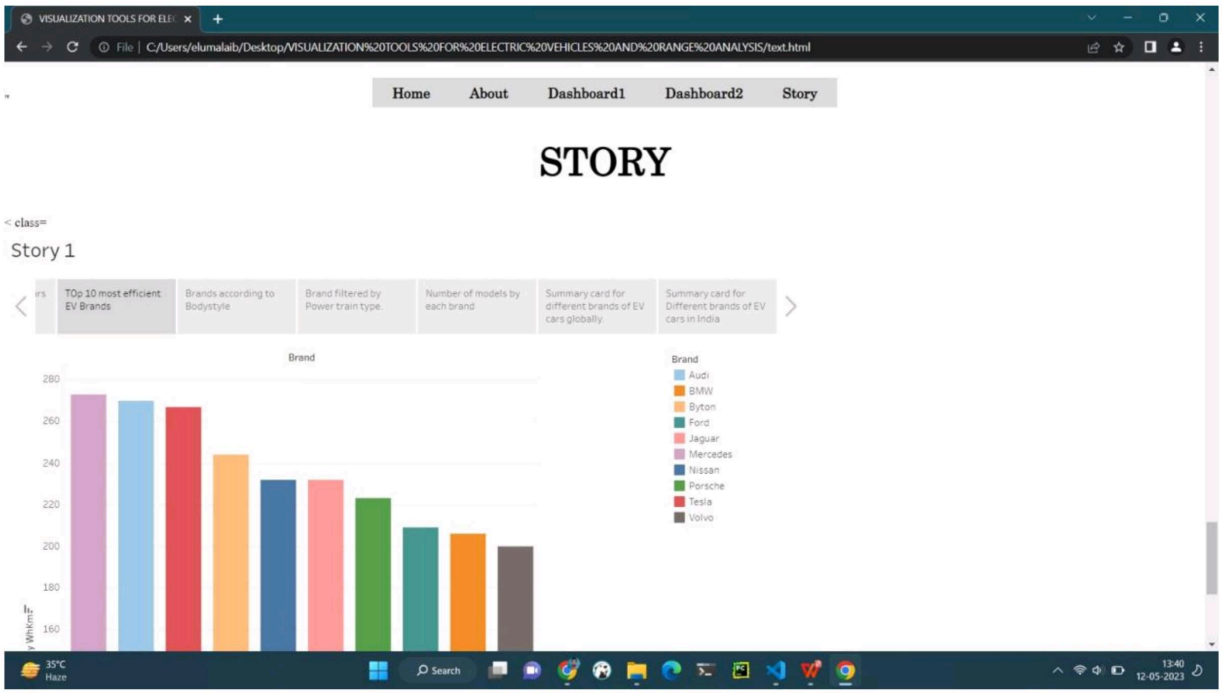
3.1 DASHBOARD 1



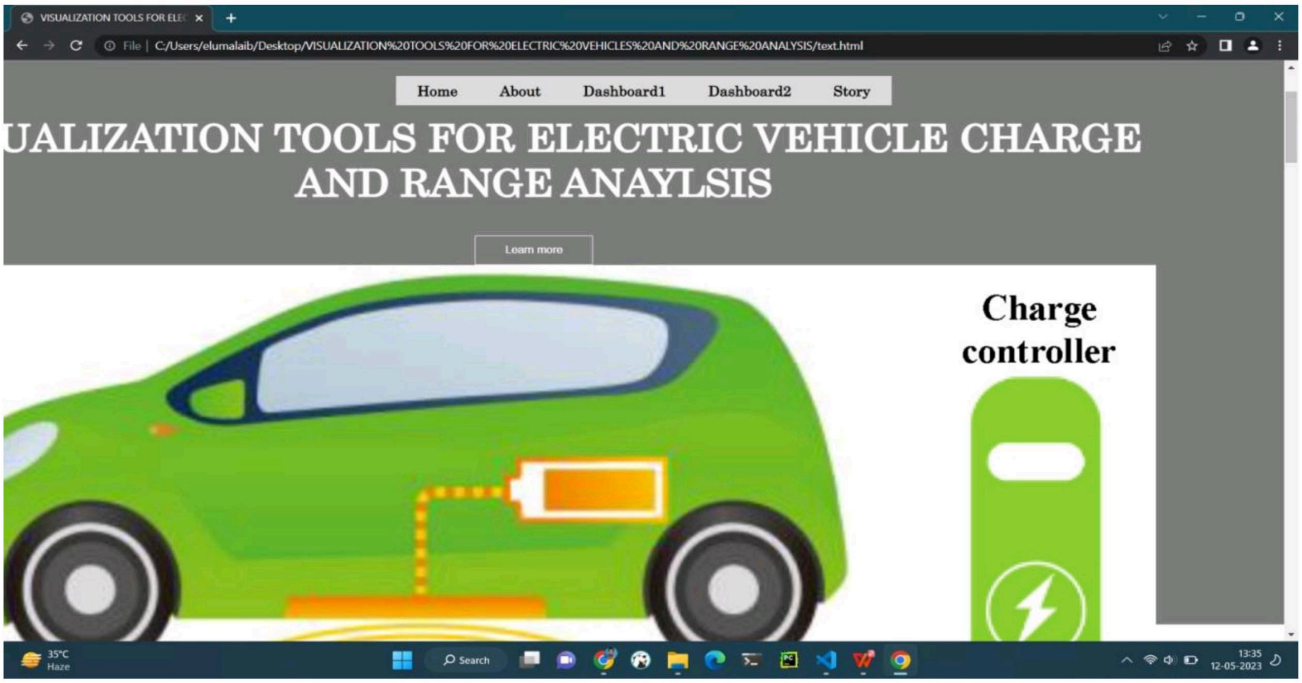
# 3.2 DASHBOARD 2

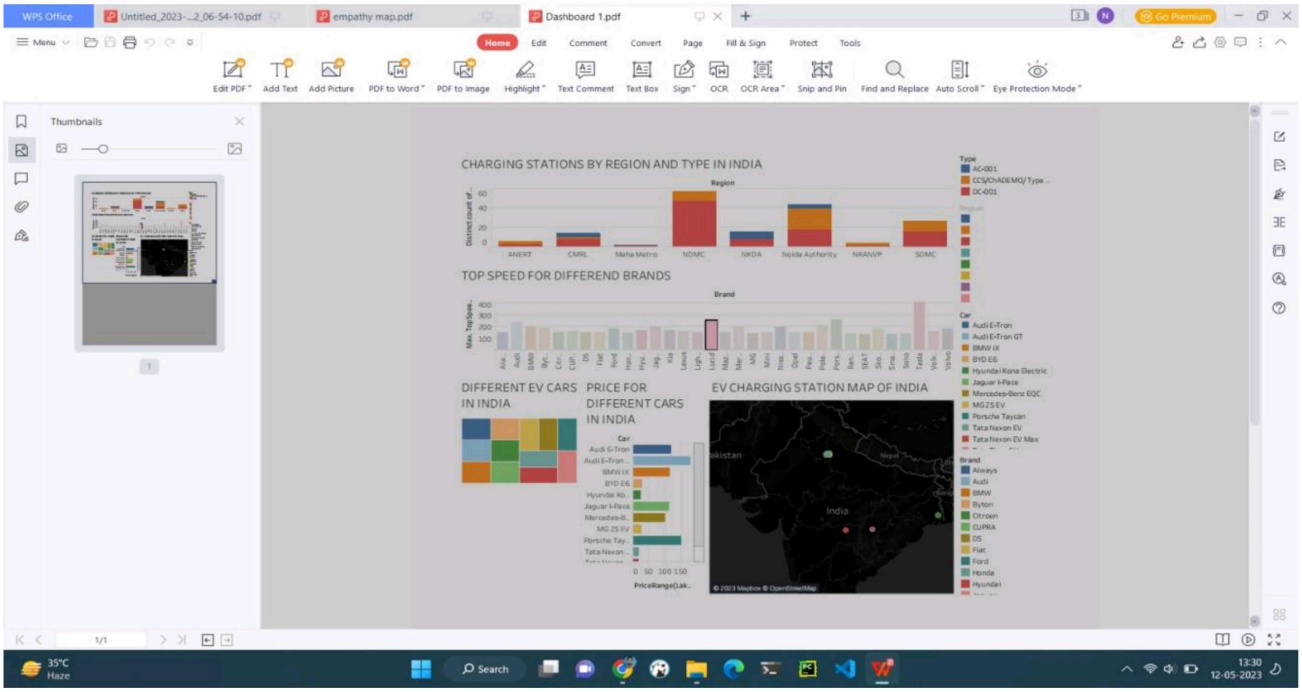


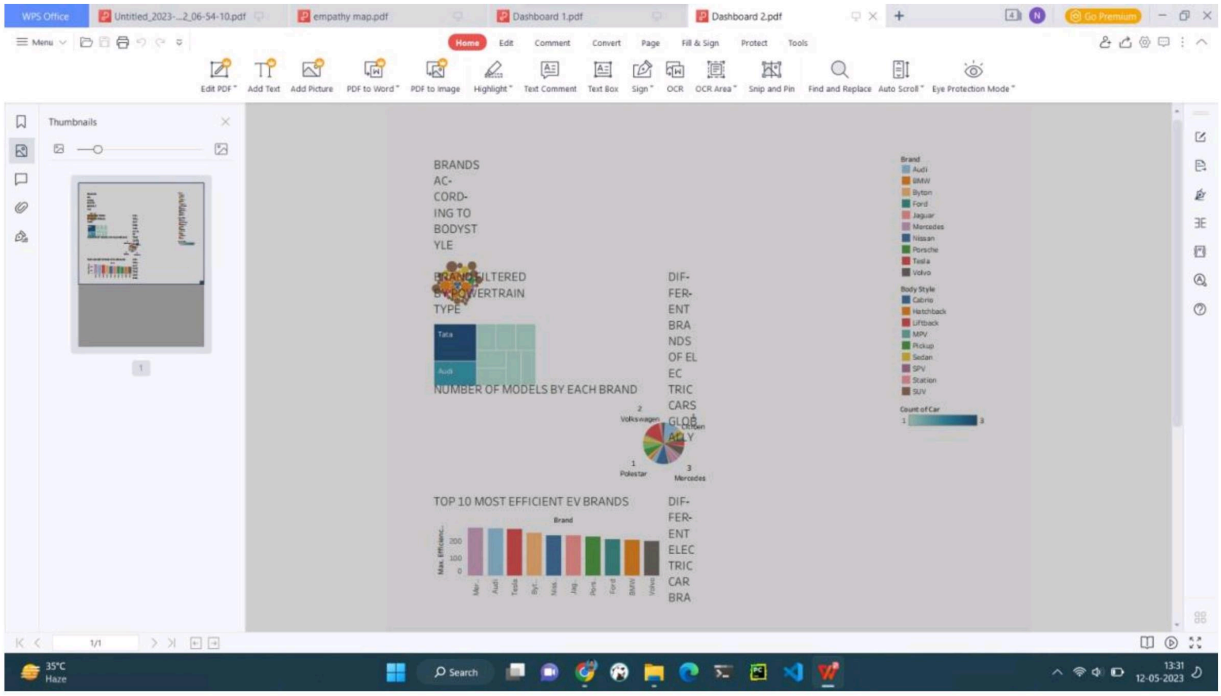
# 3.3 **STORY**

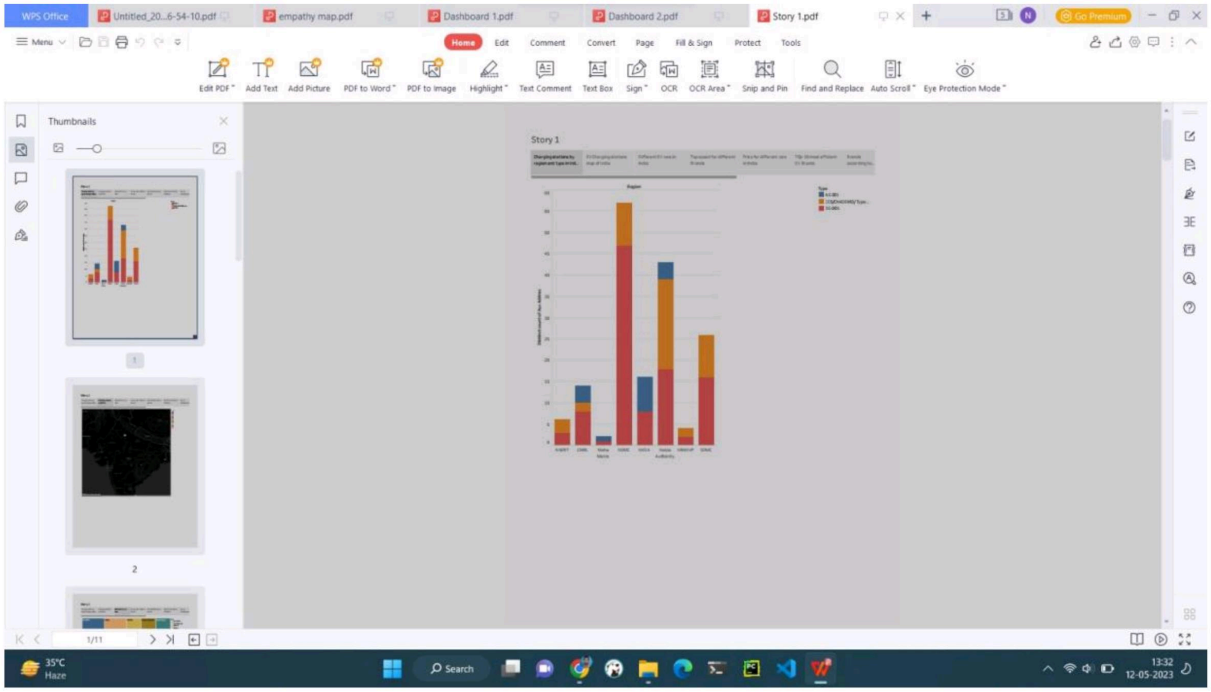

VISUALIZATION TOOLS FOR ELE
File | C:/Users/elumalaib/Desktop/VISUALIZATION%20TOOLS%20FOR%20ELECTRIC%20VEHICLES%20AND%20RANGE%20ANALYSIS/text.html
Home
About
Dashboard1
Dashboard2
Story
STORY
< class=
Story 1
TOp 10 most efficient EV Brands
Brands according to Bodystyle
Brand filtered by Power train type.
Number of models by each brand
Summary card for different brands of EV cars globally.
Summary card for Different brands of EV cars in India
Brand
280
260
240
220
200
180
160
Brand
Audi
BMW
Byton
Ford
Jaguar
Mercedes
Nissan
Porsche
Tesla
Volvo
35°C
Haze
Search
13:40
12-05-2023

# 3.4 WEBPAGE


VISUALIZATION TOOLS FOR ELEC
File | C:/Users/elumalaib/Desktop/VISUALIZATION%20TOOLS%20FOR%20ELECTRIC%20VEHICLES%20AND%20RANGE%20ANALYSIS/text.html
Home
About
Dashboard1
Dashboard2
Story
UALIZATION TOOLS FOR ELECTRIC VEHICLE CHARGE AND RANGE ANAYLSIS
Learn more
Charge controller
35°C Haze
Search
13:35 12-05-2023


WPS Office
Untitled_2023-..._2_06-54-10.pdf
empathy map.pdf
Dashboard 1.pdf
Thumbnails
CHARGING STATIONS BY REGION AND TYPE IN INDIA
TOP SPEED FOR DIFFEREND BRANDS
DIFFERENT EV CARS IN INDIA
PRICE FOR DIFFERENT CARS IN INDIA
EV CHARGING STATION MAP OF INDIA
35°C Haze
Search
13:30 12-05-2023


BRANDS AC-CORD-ING TO BODYST YLE
DIF-FER-ENT BRA NDS OF EL EC TRIC CARS GLOB ALLY
NUMBER OF MODELS BY EACH BRAND
TOP 10 MOST EFFICIENT EV BRANDS
DIF-FER-ENT ELEC TRIC CAR BRA


Story 1

# CONCLUSION

As demand grows for more publicly accessible charging stations, there is a greater need for equipment that supports faster charging at higher voltages and currents that are not currently available from residential ESVE. Globally, the number of electric vehicle networks is increasing to provide a system of publicly accessible charging stations for EV recharging. Governments, automakers and charging infrastructure providers have forged agreements to create these networks.