Project 3
Group 9
Tesla Superchargers
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Project 3 Proposal

Our data and why we chose it:
We chose a dataset based on global locations of tesla superchargers. Our group decided on this dataset due to the usability rating, size, and location data. We are also interested in how the availability of superchargers has changed as time goes on.

Below is a link to the kaggle dataset:
https://www.kaggle.com/datasets/omarsobhy14/supercharge-locations?select=Supercharge+Locations.csv

Possible research questions:

1. Where is the best place to own a Tesla based on charger location?
2. What is the relation between the number of stalls vs location/kW vs location?
3. What is the relationship between elevation and number of stals/ number of stations/kW amount?
4. Is there a relationship between the open date and number of stalls/kW amounts/Elevation?

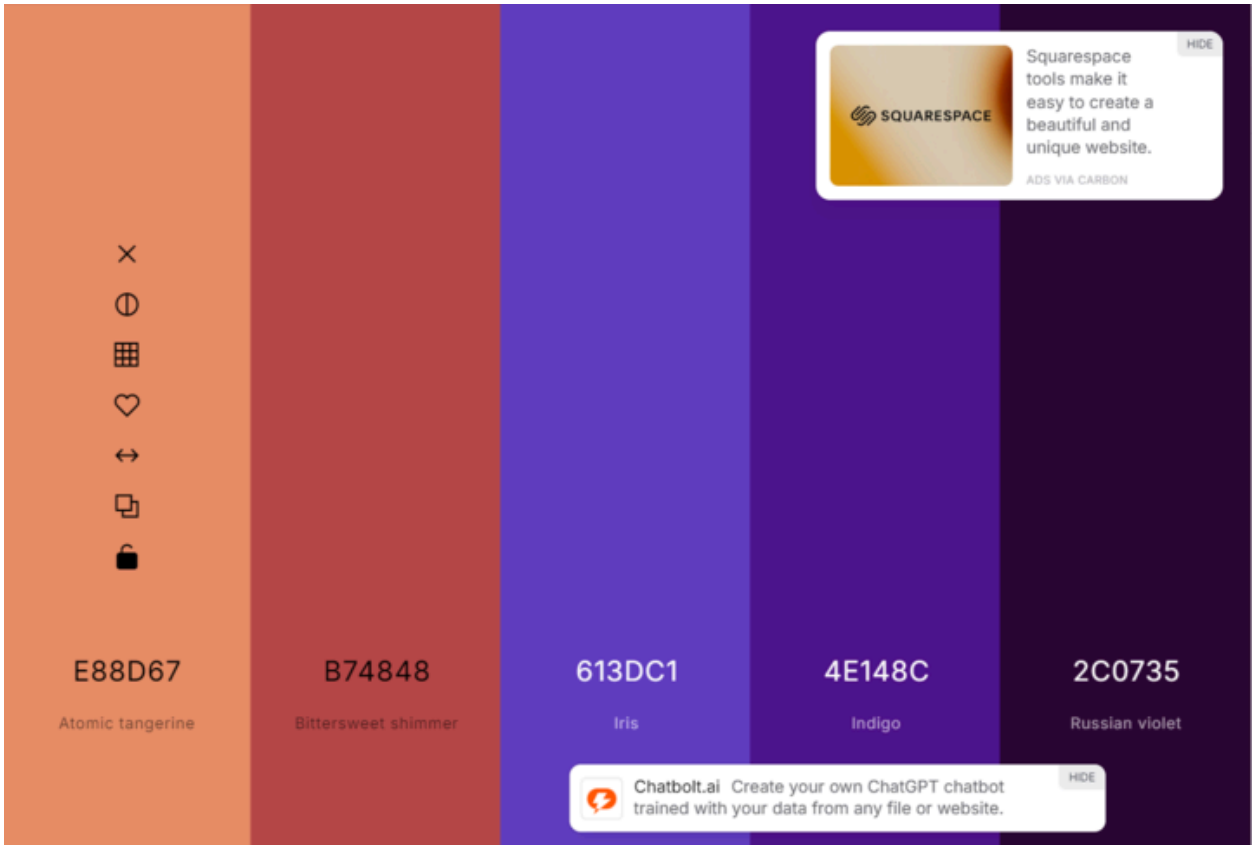
Inspiration:
Some previously done analysis with our dataset:
https://www.kaggle.com/code/leakotlyar/charging-up-analyzing-tesla-supercharge-in-israel
https://www.kaggle.com/code/stevenchen336699/tesla-super-charger-project

Articles/ websites that may be useful:
https://www.tesla.com/supercharger
https://www.wired.com/story/teslas-supercharger-strategy/

Example data visualization:

1. Map for supercharger locations globally
2. Bubble Chart for location/kW
3. Sunburst of location/number of stalls/kW
4. Bar Chart of stalls and stations
    a. Possible filters: location
    b. kW
    c. elevation
5. Line chart new locations over time

Possible color pallet:



Roles and Responsibilities:
As a team we will do all data cleaning. Then we will work on breaking up the HTML pages and the map during class on Monday after taking the weekend to explore the data. We will also decide on Monday how we will divide the slidedeck and the final write up.

As individuals we are each going to work on the following visualizations:
Steven Madden - Sunburst Chart
Amber Venes - Line Chart
Mrunmai Gadbail - Bubble Chart
Alex Reid - Bar Chart

Github link:
https://github.com/mrunmaigadbail/Tesla_Supercharge_Locations_Globally