

GROUP 4 PROPOSAL

Global EV Charging Stations

Group Members:

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Project Proposal: Global EV Charging Stations Analysis

Dataset Information

- Our team has chosen to explore the dataset:
- [Global EV Charging Stations Dataset](#)
- This dataset provides detailed information on electric vehicle (EV) charging stations worldwide, including location, charger types, power output, and network providers.
- To supplement this data, we may incorporate additional datasets, such as global energy consumption, electric vehicle adoption rates, or geographic population density, to provide more context for our analysis.

Inspiration

Our motivation for analyzing this dataset stems from growing interest in EV infrastructure and sustainability. Key questions we aim to explore include:

- How are EV charging stations distributed geographically?
- What is the relationship between population density and charging station availability?
- Are there noticeable gaps in EV infrastructure that could highlight areas for improvement?
- What are the most common charger types and power outputs available globally?

Example Visualizations

To present our findings effectively, we will create:

- **Geospatial Map:** A visualization of EV charging station locations by Lat & Long to identify regional trends.
- **Bar Chart:** Comparing the number of charging stations per country or city.

Color Palette

- Inspired by sustainability and clean energy themes:
 - **Sky blue (Sustainability, EV Theme):** Sky Blue
 - **Blue Green (Technology, Innovation):** Blue Green
 - **Yellow (Urban Infrastructure):** Selective Yellow
 - **Orange (Energy, Power Sources):** Orange
 - Prussian Blue
- Reference: <https://coolors.co/palette/8ecae6-219ebc-023047-ffb703-fb8500>
- **Roles and Responsibilities**
Each team member will focus on specific aspects while collaborating on all tasks:
- **Cleaning and Load data from CSV into SQL database–** [Luisa Murillo]
- **Create Flask back end to communicate between database and frontend–** [Jason Johnson & Thaissa Champagne]
- **Write JavaScript .js files to handle visualizations & About Us Page–** [William Ruiz & Luisa Murillo]
- **Create slides, work on Write-up–** [Ugur Cetin]