**Comprehensive analysis of EV (Electric Vehicle) charging station usage in Palo Alto/ California**

**Proposal**

This analysis aims to provide valuable insights into the utilization patterns of EV charging infrastructure, as well as conduct a side analysis on the environmental impacts and market share of electric vehicles.

**Objective:**

The primary objectives of this analysis are as follows:

Analyze EV charging station usage data to identify trends,

Investigate the correlation between charging station usage and various factors, such as population density, demographic characteristics,

Conduct a side analysis on the environmental impacts of electric vehicles, including CO2 emissions reduction and energy consumption.

Assess the market share of electric vehicles in California cities and compare it with the availability and accessibility of charging infrastructure.

**Methodology:**

To achieve the above objectives, we propose the following methodology:

**Data Collection:**

Obtain relevant EV charging station usage data from the provided CSV file.

Perform web scraping to gather additional data on environmental factors, such as air quality indices and renewable energy generation statistics.

Collect market share data of electric vehicles from reputable sources and industry reports.

**Data Sources:**

City of Palo Alto Open Data Portal

<https://data.cityofpaloalto.org/home>

California Energy Commission (CEC)

<https://www.energy.ca.gov/data-reports/energy-almanac/zero-emission-vehicle-and-infrastructure-statistics/light-duty-vehicle>

**Inspiring Screen shots:**

A screenshot of a dashboard

Description automatically generated

A map of a city with many points

Description automatically generated

Leaflet Map for the stations

Github link for the project:

<https://github.com/cuteoo2/Project-three>