Link: <https://www.kaggle.com/datasets/ironwolf404/electric-vehicle-population-in-usa>

**About Dataset**

**Overview:**

The Electric Vehicle Population Data dataset provides comprehensive insights into the distribution and characteristics of electric vehicles (EVs) across various regions.

**Objective:**

1. make EDA for understand dataset.
2. predict the type of electric vehicle based on its various characteristics

**- The dataset is allowed to be modified during the analysis.**

**Details of the columns:**

|  | **Columns** | **Descrip** | **Type** |
| --- | --- | --- | --- |
| 1 | VIN (1-10) | The Vehicle Identification Number, which uniquely identifies the vehicle. | categorical |
| 2 | County | The county where the vehicle is registered. | categorical |
| 3 | City | The city where the vehicle is registered. | categorical |
| 4 | State | The state where the vehicle is registered. | categorical |
| 5 | Postal Code | The postal code associated with the vehicle's registration address. | numerical (float) |
| 6 | Model Year | The year the vehicle model was manufactured. | numerical (int) |
| 7 | Make | The manufacturer or brand of the vehicle (e.g., Tesla, Nissan). | categorical |
| 8 | Model | The specific model of the vehicle (e.g., Model S, Leaf). | categorical |
| 9 | E.v\_Type | Classification of the electric vehicle, such as battery electric vehicle (BEV) or plug-in hybrid electric vehicle (PHEV). | categorical |
| 10 | CAFV | Clean Alternative Fuel Vehicle (CAFV) Eligibility Indicates whether the vehicle qualifies as a clean alternative fuel vehicle under specific criteria. | categorical |
| 11 | Electric Range | The maximum distance the vehicle can travel on electric power alone, typically measured in miles. | numerical (float) |
| 12 | Base MSRP | The Manufacturer's Suggested Retail Price for the vehicle before any options or additional features are added. | numerical (float) |
| 13 | Legislative District | The legislative district in which the vehicle is registered, which may affect local regulations or incentives. | numerical (float) |
| 14 | DOL Vehicle ID | The Department of Licensing Vehicle ID, a unique identifier used by the state’s Department of Licensing. | numerical (int) |
| 15 | Vehicle Location | Specific location details of where the vehicle is registered or primarily located. | categorical |
| 16 | Electric Utility | The electric utility company that provides power to the vehicle's location. | categorical |
| 17 | 2020 Census Tract | The geographic area defined by the U.S. Census Bureau for statistical purposes, which helps in demographic analysis. | numerical (float) |