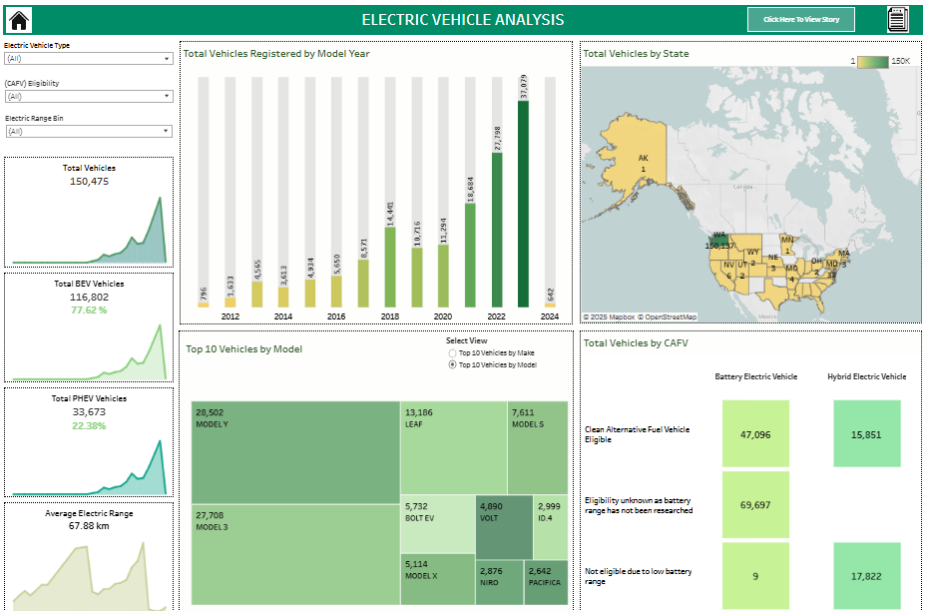
Tableau Assignment: Electric Vehicle Analysis

Dashboard Link →

https://public.tableau.com/app/profile/shardhanjali.nag/viz/ElectricVehicleAnalysis_17402303516800/Electricvehicleanalysis

The Electric Vehicle Analysis Dashboard provides a comprehensive overview of electric vehicle adoption, distribution, and performance. It highlights key metrics such as total vehicle count, average electric range, and the most popular models. The dashboard's visualizations offer valuable insights into the growth trends and regional adoption, aiding stakeholders in making informed decisions in the electric vehicle market.



Key Performance Indicators (KPIs)

1. **Total Electric Vehicles**:
    - **150,475 Vehicles**
    - **Insight**: Demonstrates substantial adoption of electric vehicles.
2. **Total BEV (Battery Electric Vehicles)**:
    - **116,802 Vehicles (77.62% of Total)**
    - **Insight**: Indicates the dominance of BEVs in the electric vehicle market.
3. **Total PHEV (Plug-in Hybrid Electric Vehicles)**:
    - **33,673 Vehicles (22.38% of Total)**
    - **Insight**: Highlights the presence and growing adoption of PHEVs alongside BEVs.
4. **Average Electric Range**:
    - **67.88 km**
    - **Insight**: Provides an average range, reflecting advancements in battery technology and efficiency.

Graph Insights

1. **Vehicles Registered by Model Year**:
    - **Insight**: Shows a significant increase in vehicle registrations over the years, peaking in 2024, indicating a growing acceptance and demand for electric vehicles.

2. **Vehicles by State**:
    - **Insight**: Visualizes the geographic distribution of electric vehicles across different states, revealing key regions with high adoption rates.
3. **Top 10 Vehicles by Model**:
    - **Insight**: Identifies the most popular electric vehicle models, with Model Y and Model 3 leading the market, indicating consumer preferences for these models.
4. **Vehicles by CAFV (Clean Alternative Fuel Vehicle) Eligibility**:
    - **Insight**: Breaks down vehicles by their eligibility for clean alternative fuel incentives, showing the split between battery electric and plug-in hybrid vehicles.