

Analysis of the Electric Vehicle Dashboard:

1. Total Vehicles:

 A total of 1,50,437 electric vehicles (EVs) are analysed in the dataset.

2. Electric Range:

 The average electric range of vehicles is approximately 67.86 miles.

3. Vehicle Distribution:

- Battery Electric Vehicles (BEVs): Constitute 77.62% of the total, with 1,16,766 vehicles.
- Plug-in Hybrid Electric Vehicles (PHEVs): Make up
 22.38%, with 33,671 vehicles.

4. Trend Over Time:

- A significant rise in EV adoption is observed over the years, especially from 2019 onward, with the highest number of vehicles recorded in 2023 (37,080 vehicles).
- There is a steep decline in the number of vehicles for 2024,
 likely due to incomplete or limited data for the year.

5. State-Wise Distribution:

 Most EV registrations are concentrated in specific states, with California (1,50,106 vehicles) leading by a large margin, indicating its proactive approach toward EV adoption and incentives.

6. Top Vehicle Models and Manufacturers:

- Tesla dominates the market, with the Model Y (28,501 vehicles, 18.95%) and Model 3 (27,708 vehicles, 18.42%) being the top-selling models.
- Other significant players include Nissan (13,187 vehicles),
 Chevrolet, and BMW.

7. CAFE Eligibility:

- Around 41.82% (62,911 vehicles) are CAFE (Corporate
 Average Fuel Economy) eligible, showcasing a significant share of fuel-efficient and environment-friendly vehicles.
- 46.33% (69,697 vehicles) fall under the "CAFE Unknown" category, which might indicate missing or ambiguous data.

Conclusion:

- **Growth in EV Adoption:** The dashboard highlights the increasing adoption of electric vehicles, with Tesla being a market leader in terms of vehicle count and brand recognition.
- Geographical Insights: California is the leading state in EV adoption, indicating a strong emphasis on sustainable transportation initiatives.
- Market Opportunities: Other states show lower EV counts, presenting an opportunity for manufacturers and policymakers to promote EV adoption through incentives, infrastructure development, and awareness campaigns.
- **Data Limitations:** The "CAFE Unknown" category and the sharp drop in 2024 data suggest the need for better data completeness and updates.

This dashboard provides a clear picture of the EV market and serves as a useful tool for analysing trends and making strategic decisions for manufacturers and policymakers.