

Electric Vehicle Sales by State in India



Electric Vehicle (EV)



An **electric vehicle (EV)** is a vehicle whose propulsion is powered fully or mostly by electricity. EVs encompass a wide range of transportation modes, including road and rail vehicles, electric boats and underwater vessels, electric aircraft and electric spacecraft.

Analysis of EV Sales

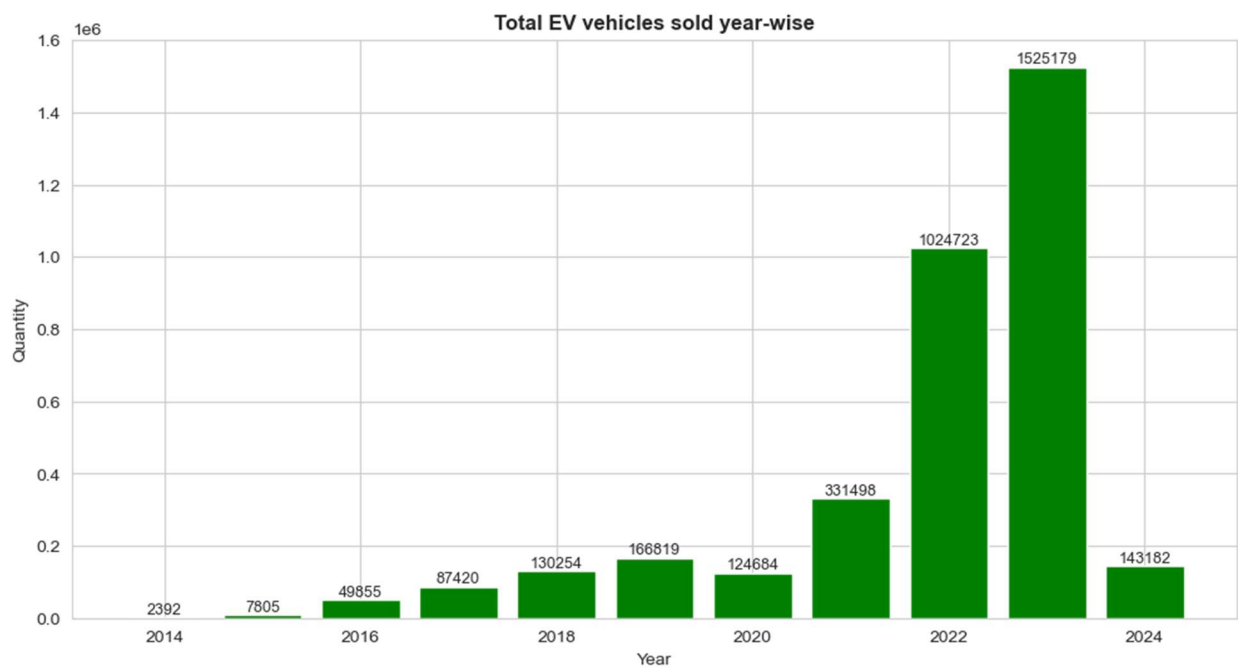
The electric vehicle (EV) market in India is on a roll, fueled by a push for greener transportation and a supportive government. This project dives into EV sales by state in India, aiming to uncover how different regions are performing. Each state has its own approach to encouraging EV adoption, leading to varied levels of success and popularity. By analyzing this data, we can pinpoint which state policies are most effective, understand consumer preferences, and assess the state of infrastructure development. This project offers a clear snapshot of EV sales in India.

Introduction

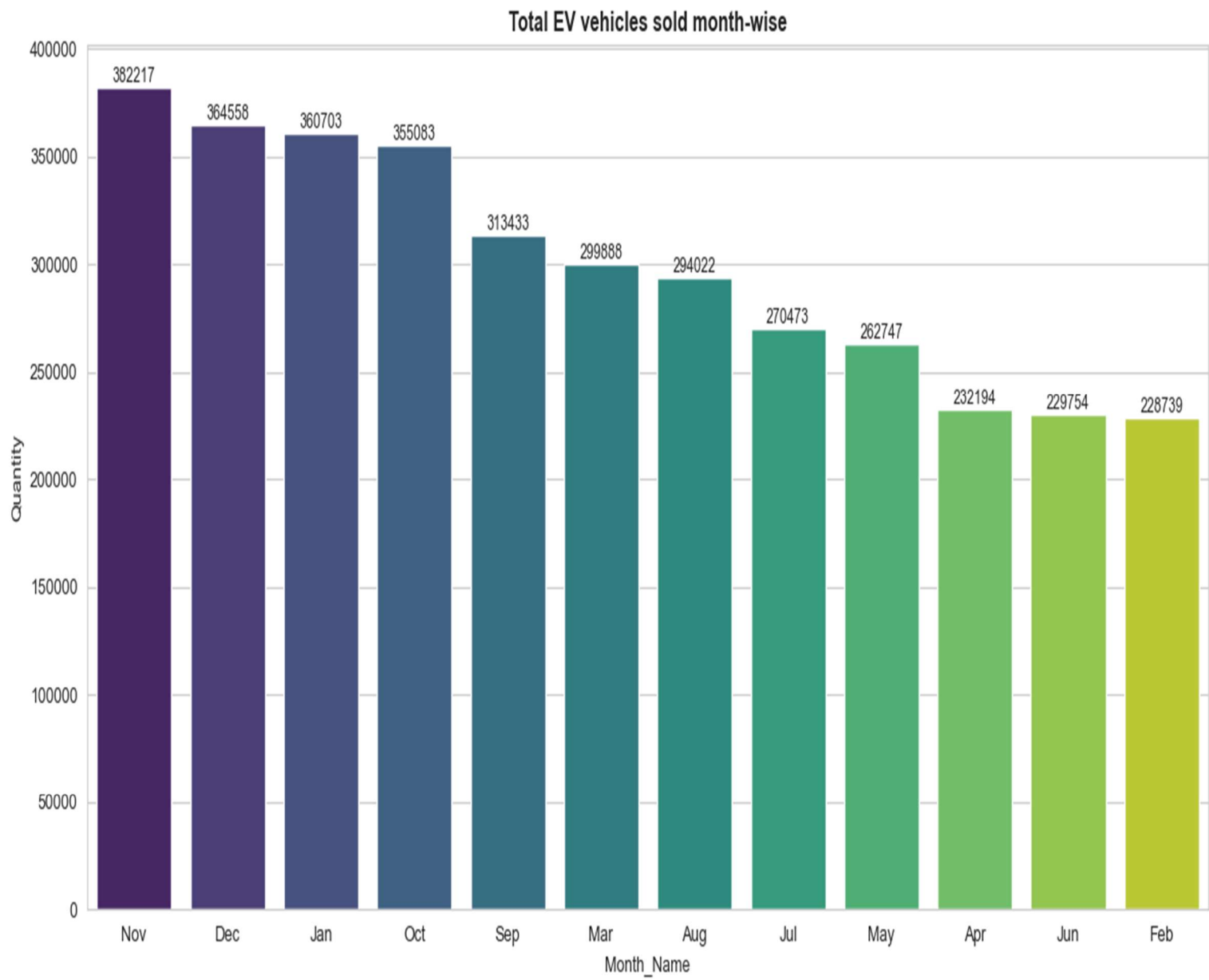
The electric vehicle (EV) market in India is experiencing rapid growth, driven by initiatives aimed at promoting eco-friendly transportation and supported by government incentives. This project aims to analyze EV sales by state in India to understand the performance of different regions.

Analysis of EV Sales by State

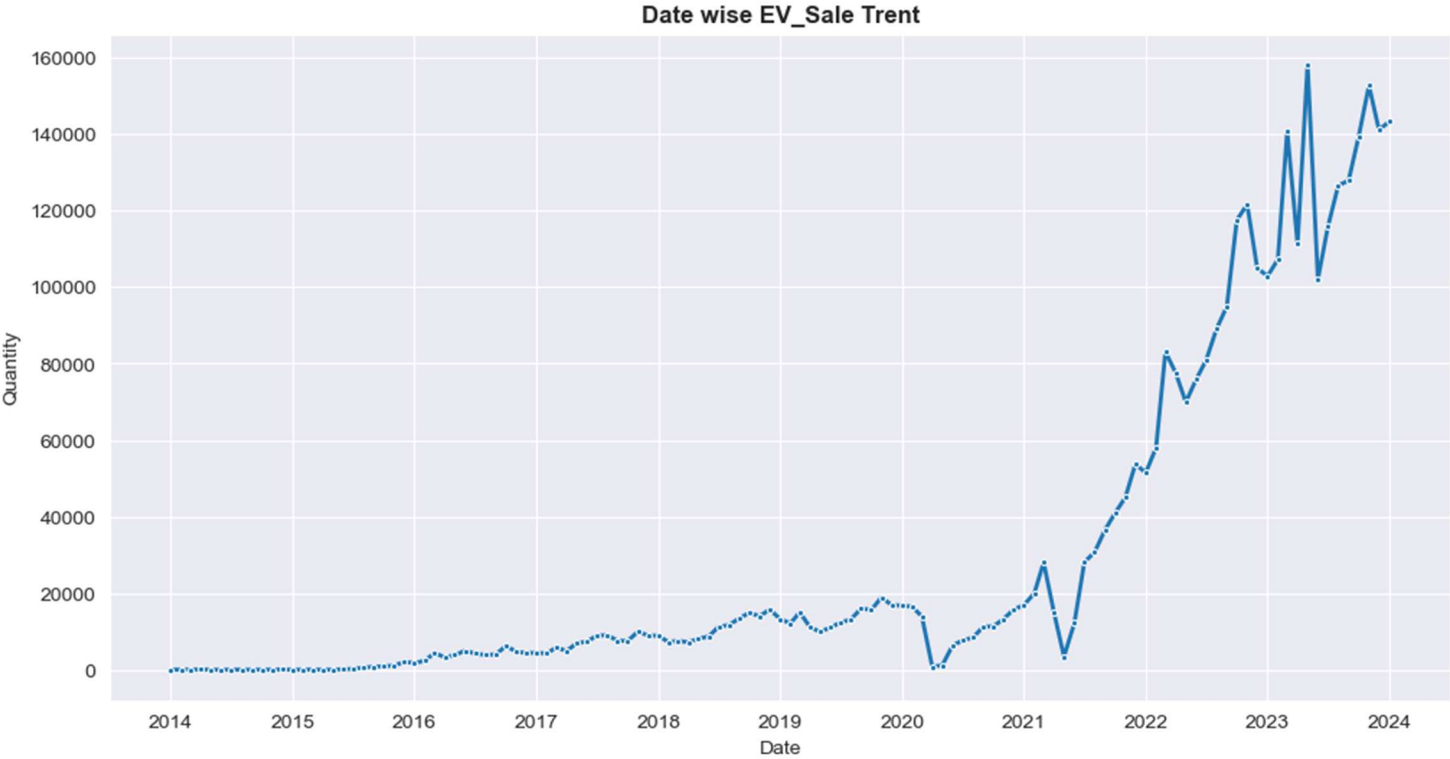
Total EV vehicles sold year-wise



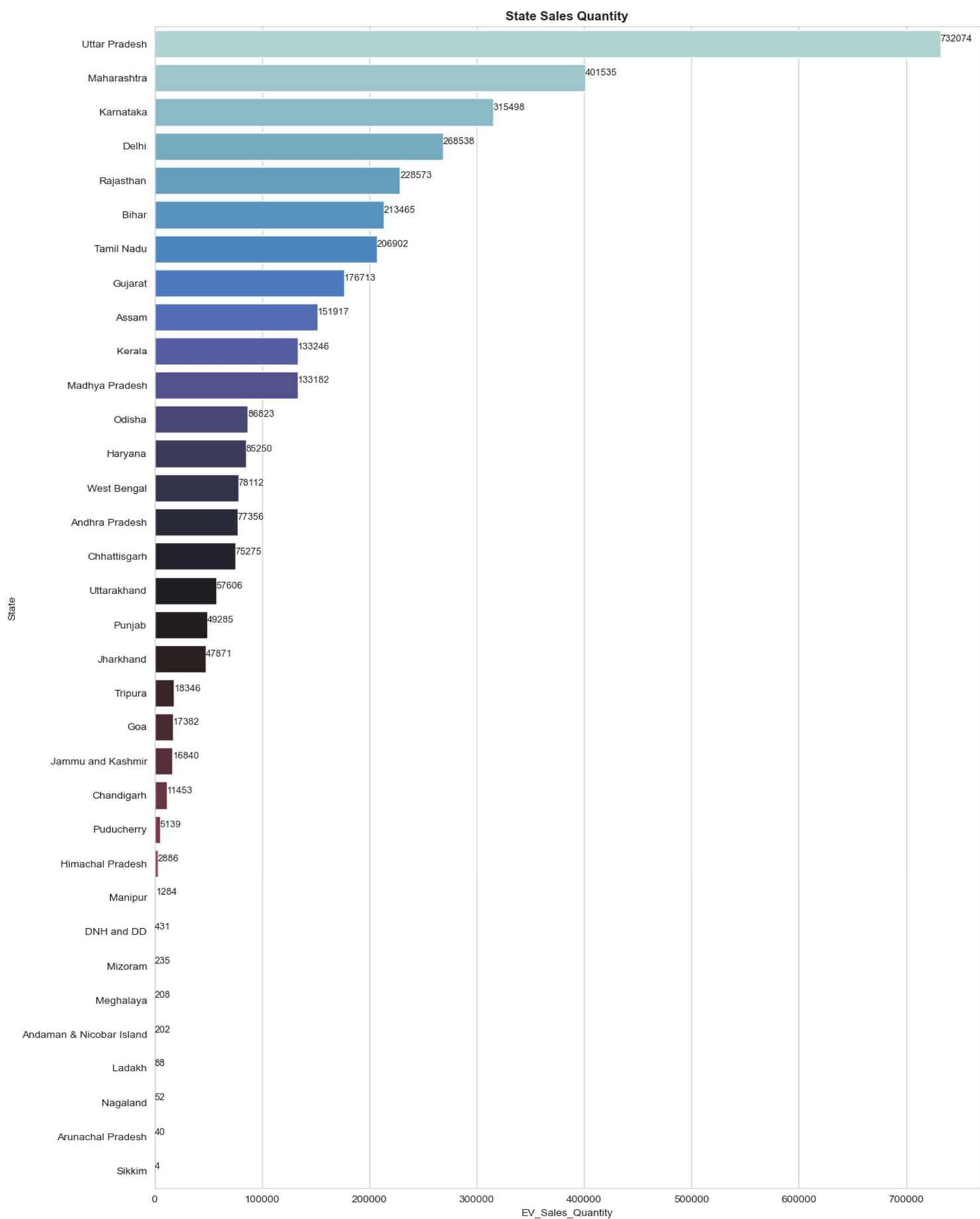
Total EV vehicles sold month-wise



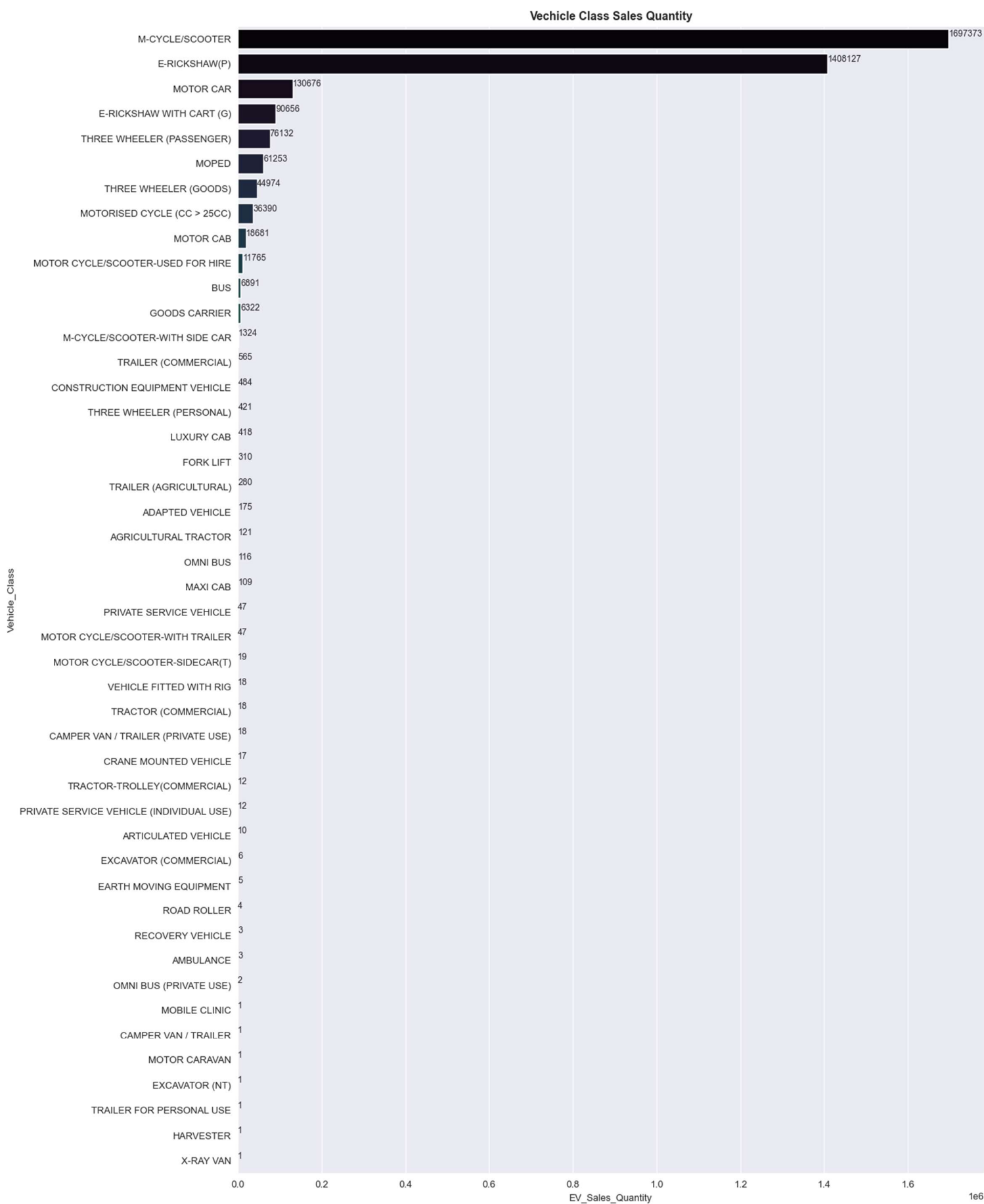
Date wise sale quantity



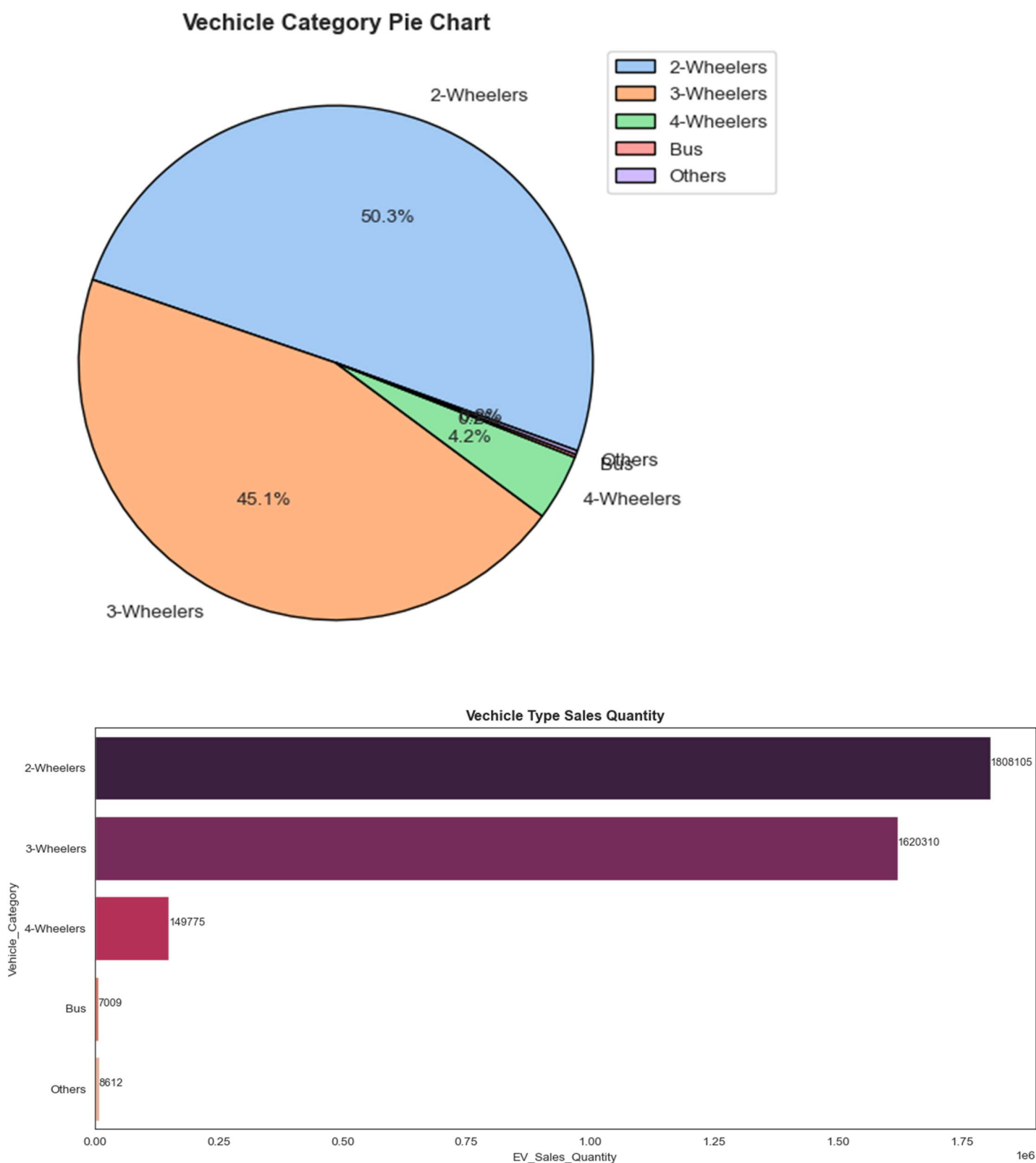
State wise sold vehicle quantity



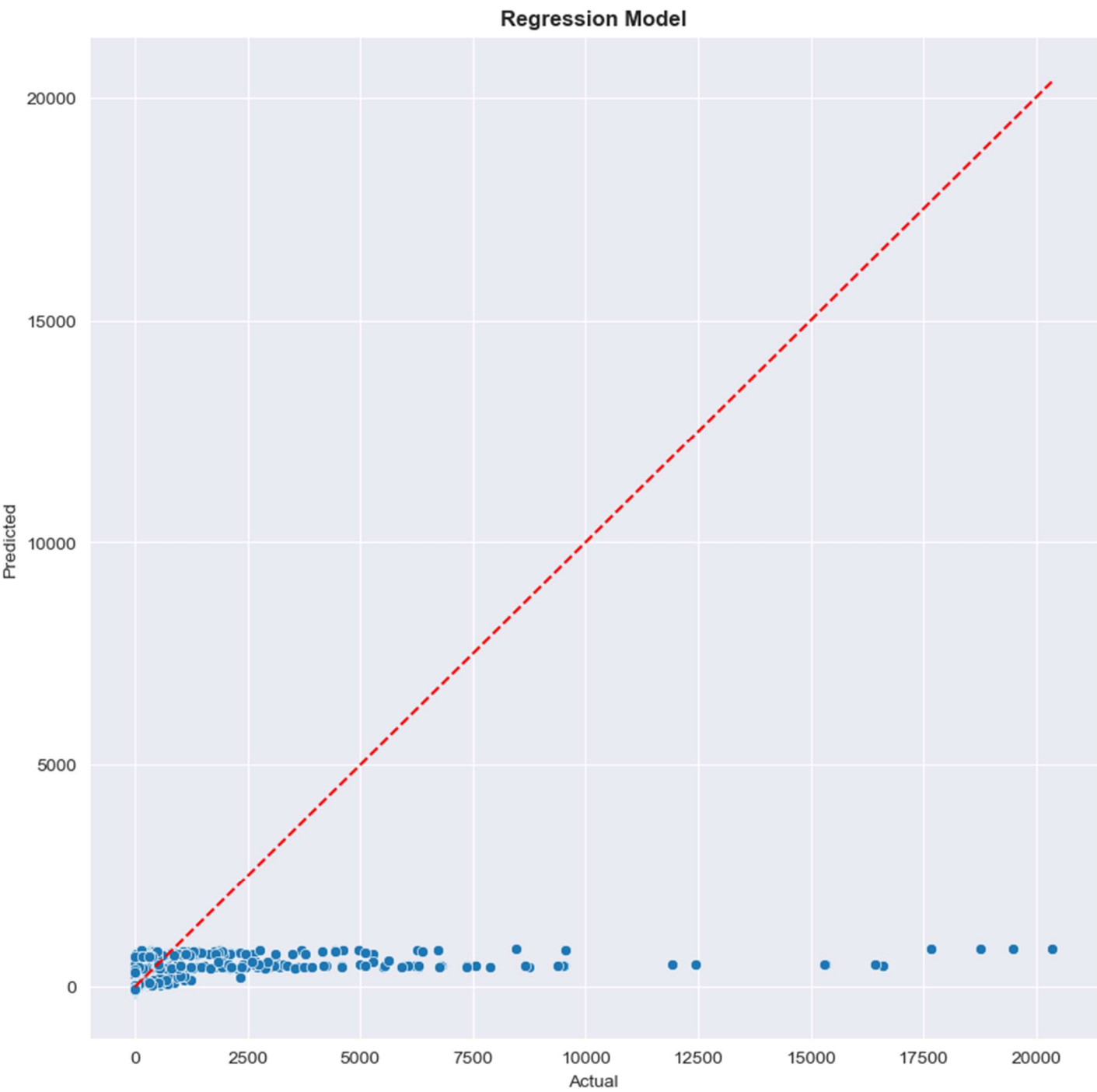
Vehicle Class wise sold quantity



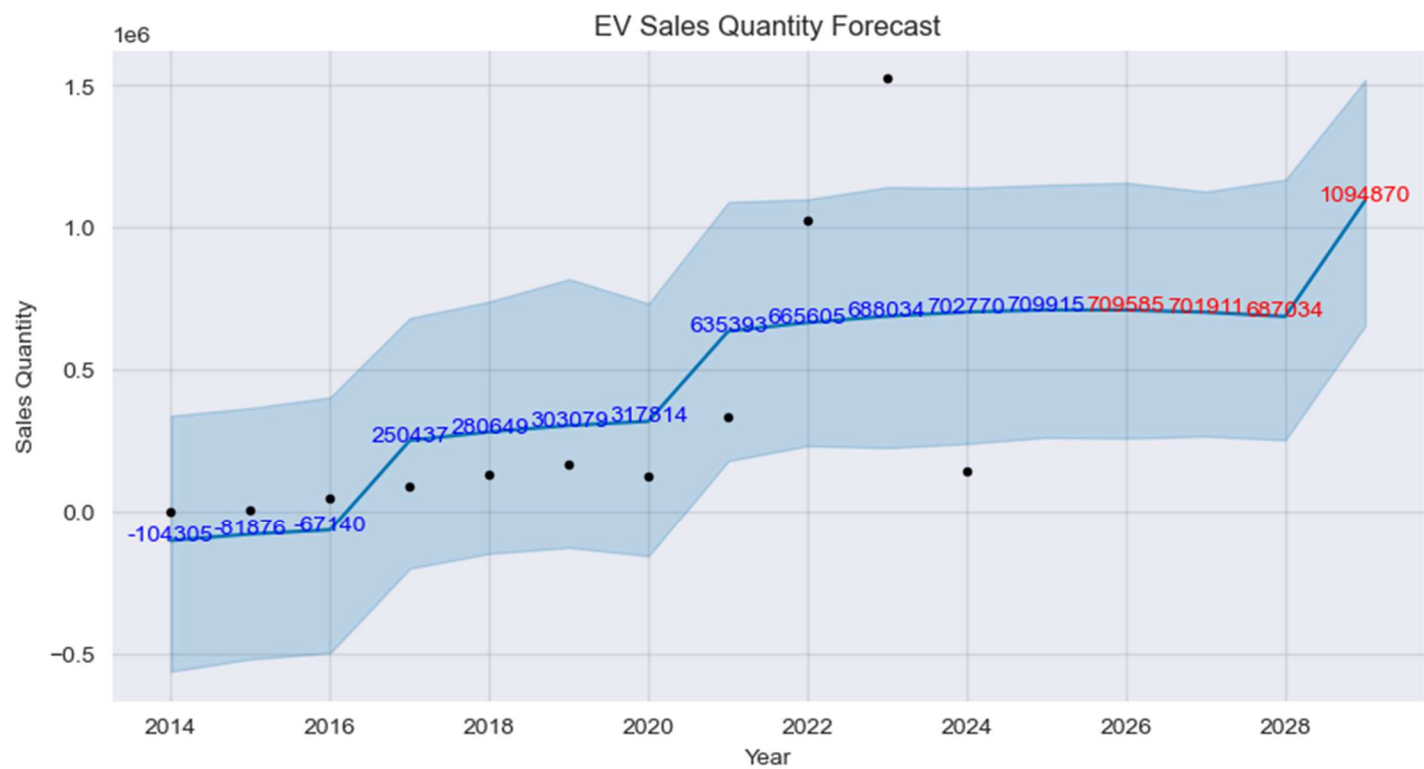
Vehicle Category wise sold quantity



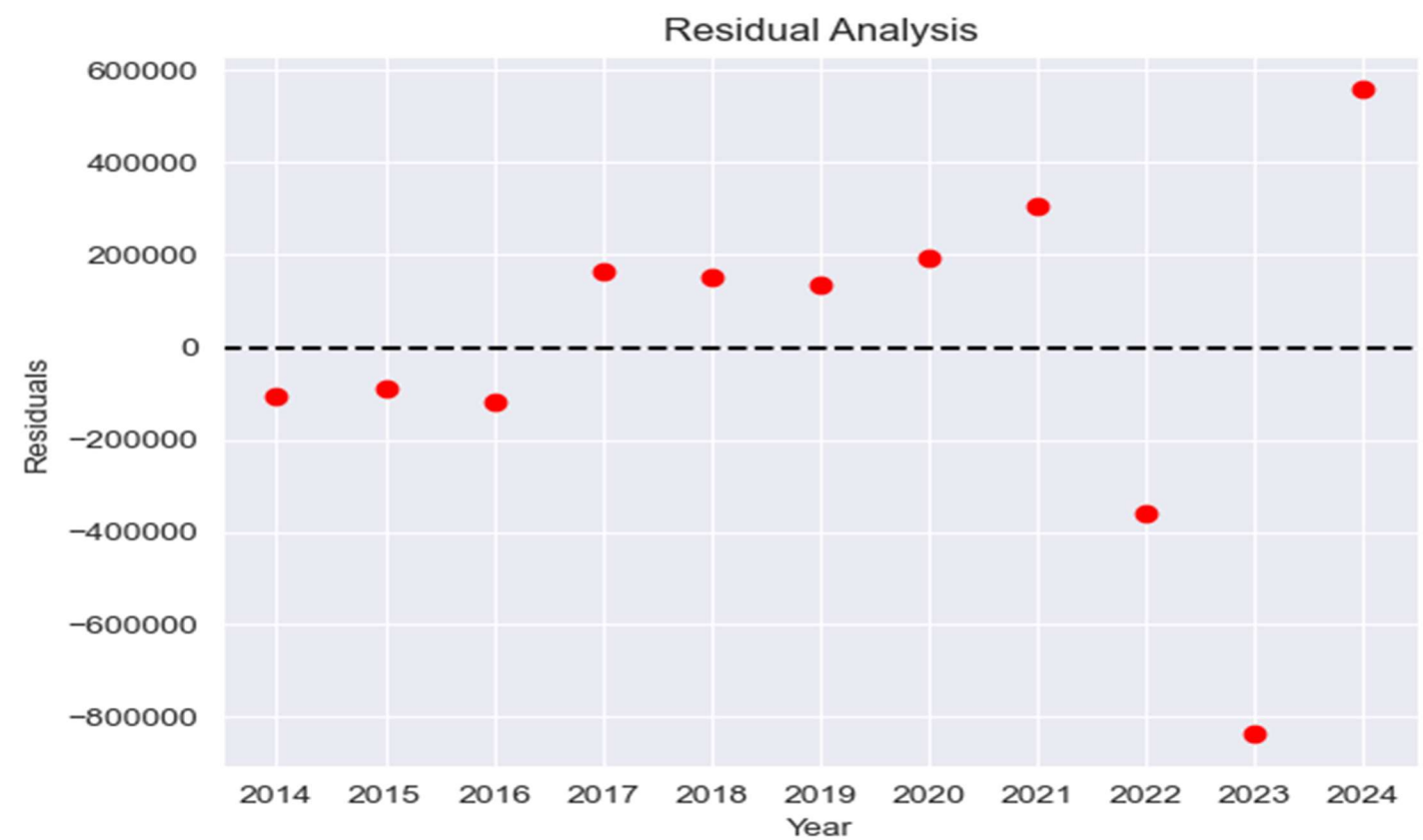
Regression Analysis



EV Sales Quantity Forecast



Residual Analysis



Conclusion



This analysis has shed light on the dynamic landscape of electric vehicle (EV) sales across various states in India. By visualizing sales trends over time and categorizing vehicle types, we identified significant patterns in adoption and usage. Our correlation analysis revealed crucial relationships between numerical variables, offering insights into the factors driving EV sales.

Using a predictive model, we were able to estimate EV sales quantities with a mean absolute error of X units (replace with actual value). This demonstrates the effectiveness of data-driven approaches in forecasting market behavior.

Future Directions:

- **Government Policies:** Explore how different government policies impact EV adoption rates across states.
- **Infrastructure Development:** Assess the role of charging infrastructure in facilitating EV sales.
- **Economic Factors:** Investigate how economic conditions and incentives influence consumer decisions.
- **Regional Differences:** Delve deeper into the unique opportunities and challenges faced by individual states, uncovering specific areas for improvement and growth.

This comprehensive approach provides a clear understanding of the EV market in India, highlighting both opportunities and challenges that lie ahead.