**Project Summary: Electric Vehicle Sales in India**

**Objective:**

This project analyzes the sales trends of **Electric Vehicles (EVs) in India**, focusing on yearly, state-wise, and category-wise insights. The goal is to understand market trends, vehicle type adoption, and seasonal variations to identify key factors influencing EV sales growth.

**Data Overview:**

* The dataset includes **EV sales records from 2014 to 2024** across **various states in India**.
* It contains information on **vehicle categories** (2-wheelers, 3-wheelers, 4-wheelers, buses, etc.), **vehicle types**, and **sales quantity** per year.

**Key Findings:**

✅ **Steady Growth in EV Sales** – The data shows a rising trend in EV adoption, likely due to government incentives, environmental concerns, and increasing fuel prices.  
✅ **Top EV-Adopting States** – **Maharashtra, Karnataka, and Uttar Pradesh** have the highest EV sales, indicating better infrastructure and policies.  
✅ **Vehicle Category Trends** –

* **Two-wheelers** lead the market, suggesting their affordability and popularity in urban areas.
* **Four-wheelers & Three-wheelers** are gaining traction, especially in shared and commercial segments.
* **Buses and Institutional Vehicles** have lower adoption but hold potential for public transport electrification.  
  ✅ **Seasonal Variations** – Sales fluctuate due to festival seasons, new model launches, and policy changes.

**Technical Aspects:**

🔹 **Tools Used**: Python (Pandas, Matplotlib, Seaborn)  
🔹 **Techniques Applied**: Data Preprocessing, Exploratory Data Analysis (EDA), and Visualization

**Conclusion:**

The increasing adoption of EVs in India highlights the growing shift towards sustainable mobility. While two-wheelers dominate, opportunities exist for expanding EV adoption in commercial and public transport sectors. Further studies incorporating policy impacts and infrastructure developments could provide deeper insights.

🚀 **Next Steps:**

* Incorporate external factors like charging station availability and government incentives.
* Predict future EV sales trends using machine learning models.