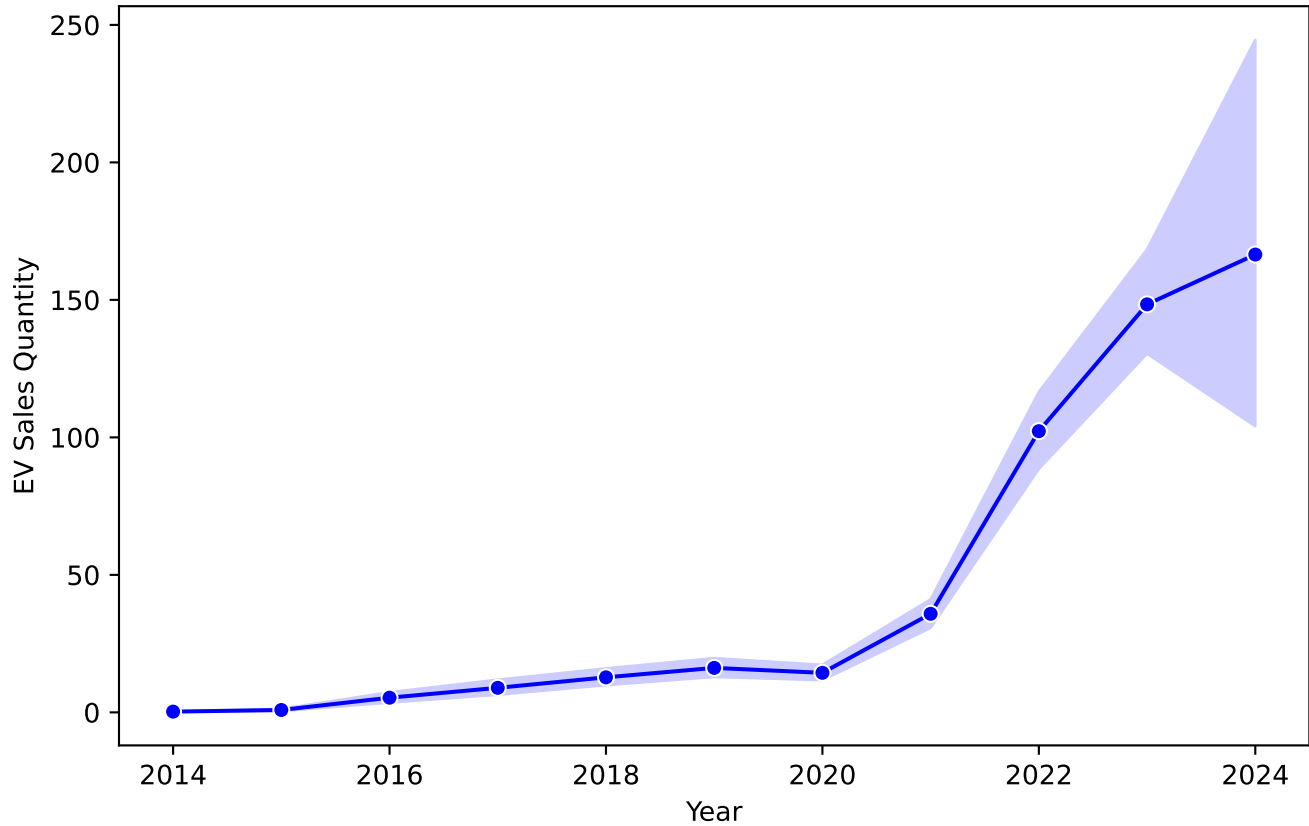


## Electric Vehicle Sales Analysis Report

This report provides a comprehensive analysis of electric vehicle sales in India. It includes various visualizations to understand trends, distributions, and patterns in the data. Additionally, it features predictive modeling to forecast sales quantities.

Generated automatically using machine learning techniques for descriptions.

Yearly EV Sales in India



## Yearly EV Sales in India

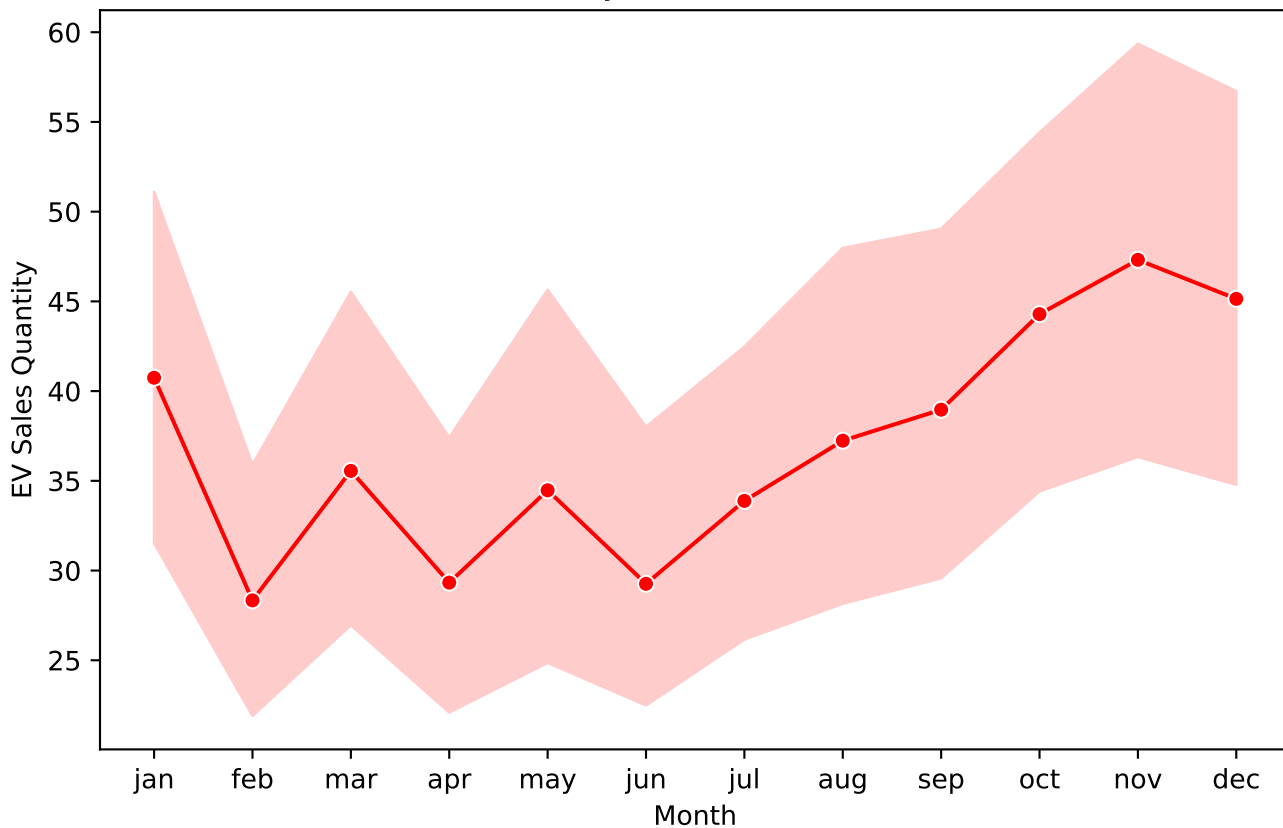
X-axis: Year

Y-axis: EV Sales Quantity

### Description:

This line plot shows the trend of electric vehicle sales quantity in India over the years. It helps to understand how the sales have increased or decreased annually.

# Monthly EV Sales in India



## Monthly EV Sales in India

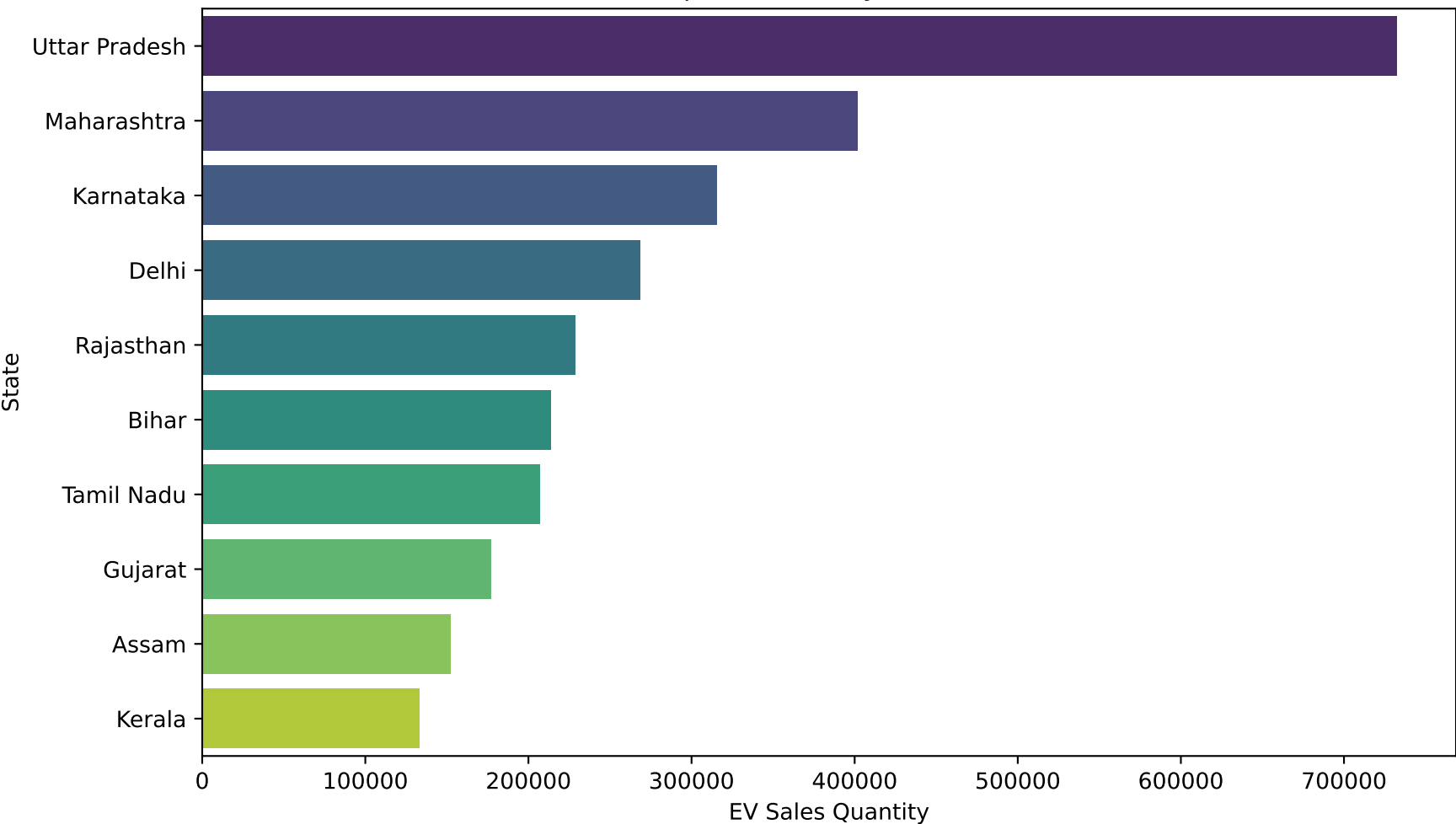
X-axis: Month

Y-axis: EV Sales Quantity

### Description:

This line plot illustrates the monthly variation in electric vehicle sales quantity in India. It highlights seasonal patterns or monthly fluctuations in sales.

Top 10 States by EV Sales



## Top 10 States by EV Sales

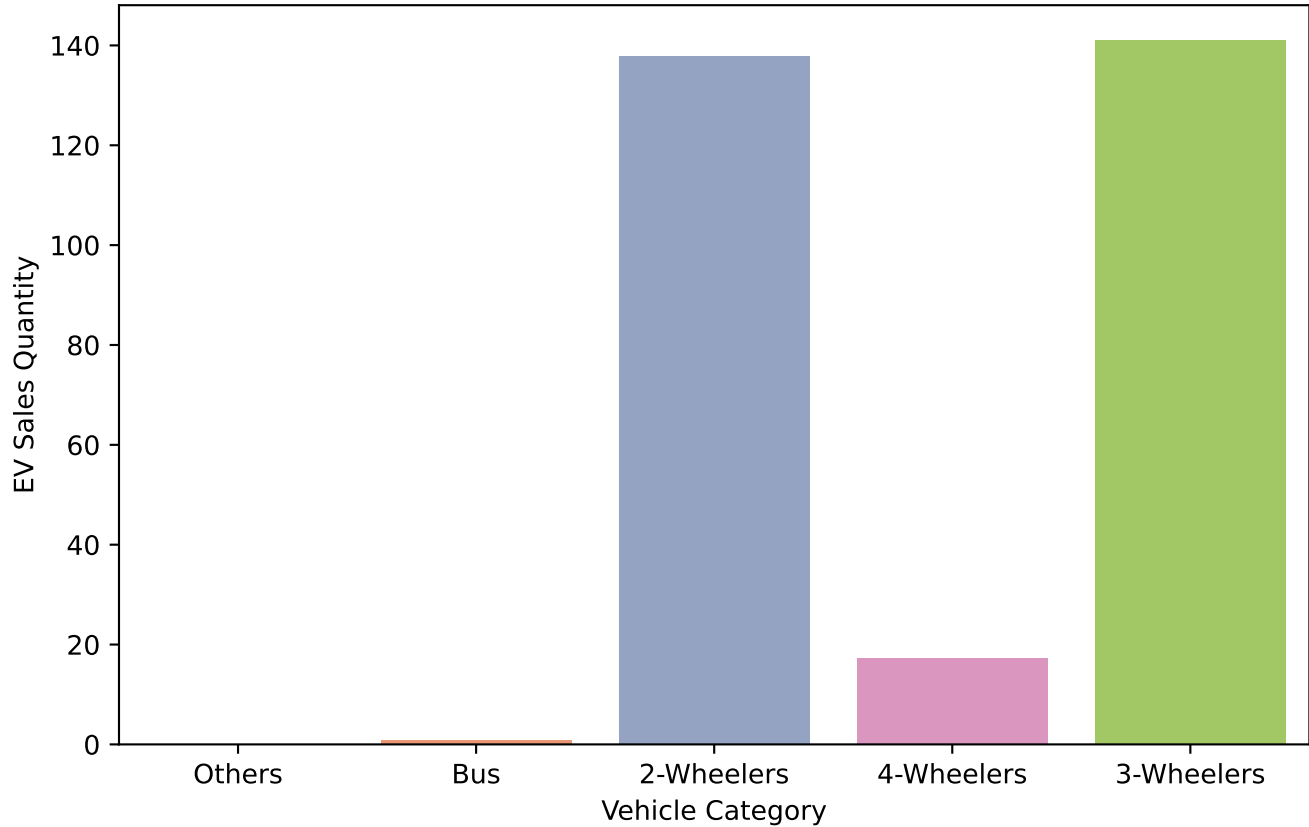
X-axis: EV Sales Quantity

Y-axis: State

### Description:

This bar chart displays the top 10 states in India by total electric vehicle sales quantity. It identifies the leading states in EV adoption.

EV Sales by Vehicle Category





## EV Sales by Vehicle Category

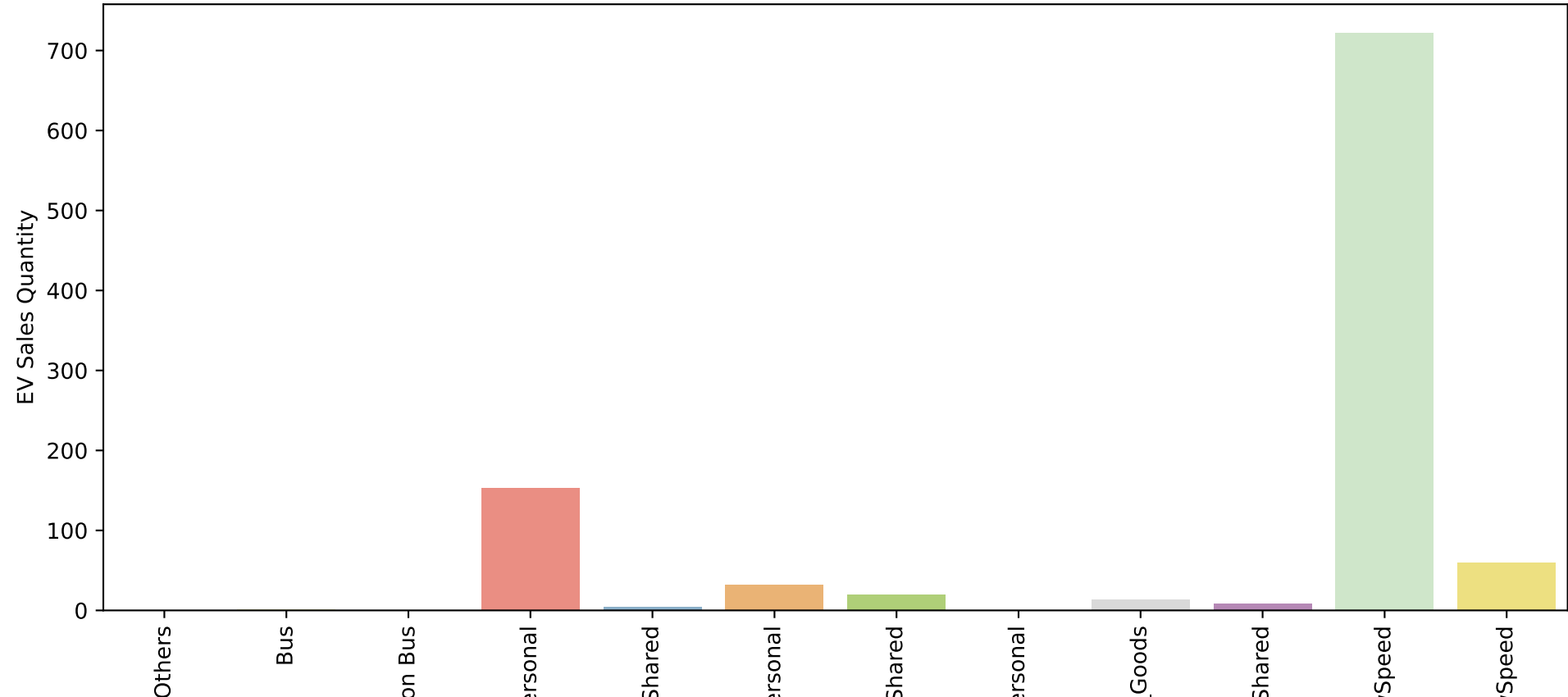
X-axis: Vehicle Category

Y-axis: EV Sales Quantity

### Description:

This bar chart shows the sales quantity of electric vehicles categorized by vehicle category. It compares sales across different categories like passenger vehicles or commercial vehicles.

EV Sales by Vehicle Type



## EV Sales by Vehicle Type

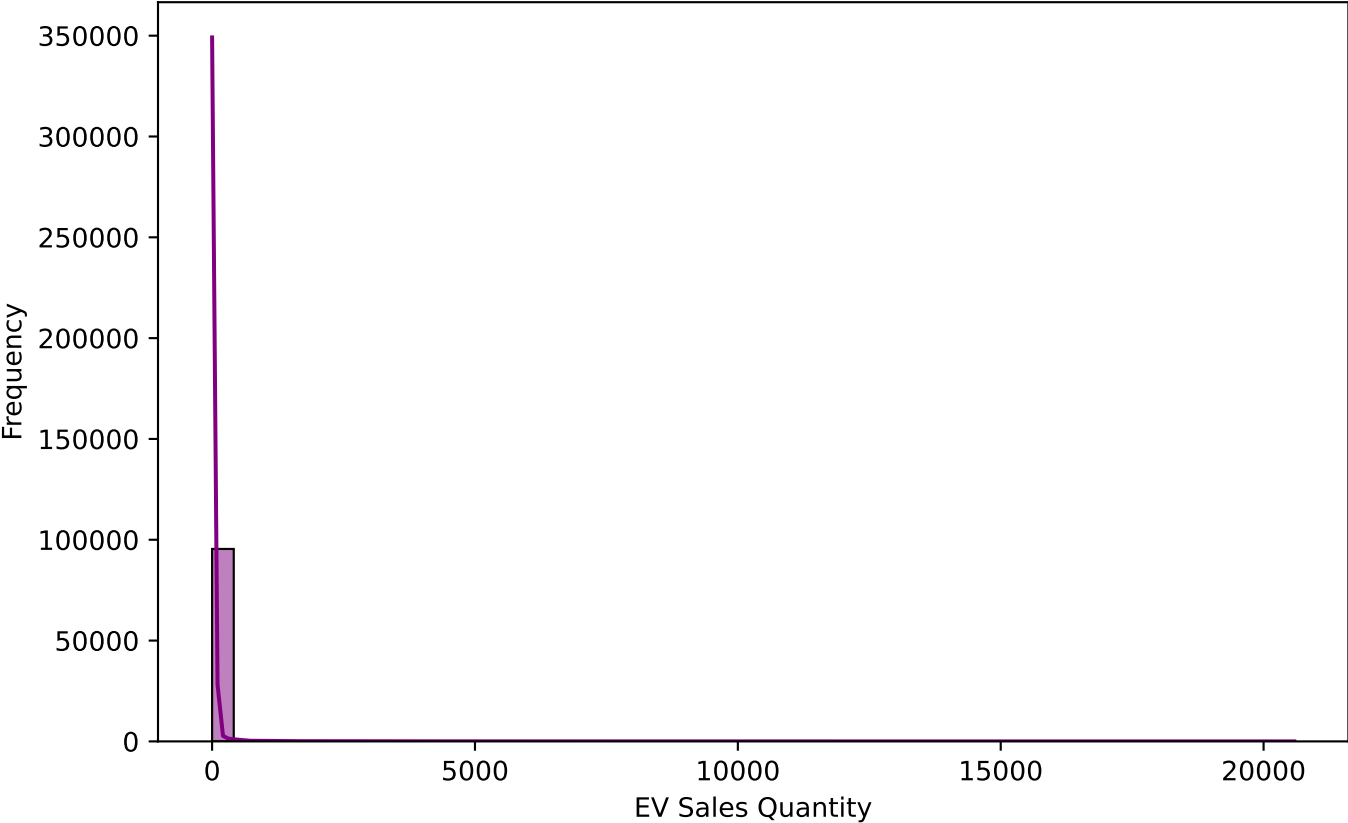
X-axis: Vehicle Type

Y-axis: EV Sales Quantity

### Description:

This bar chart presents the sales quantity by specific vehicle types. It provides insights into which types of EVs are most popular.

Distribution of EV Sales Quantity



## Distribution of EV Sales Quantity

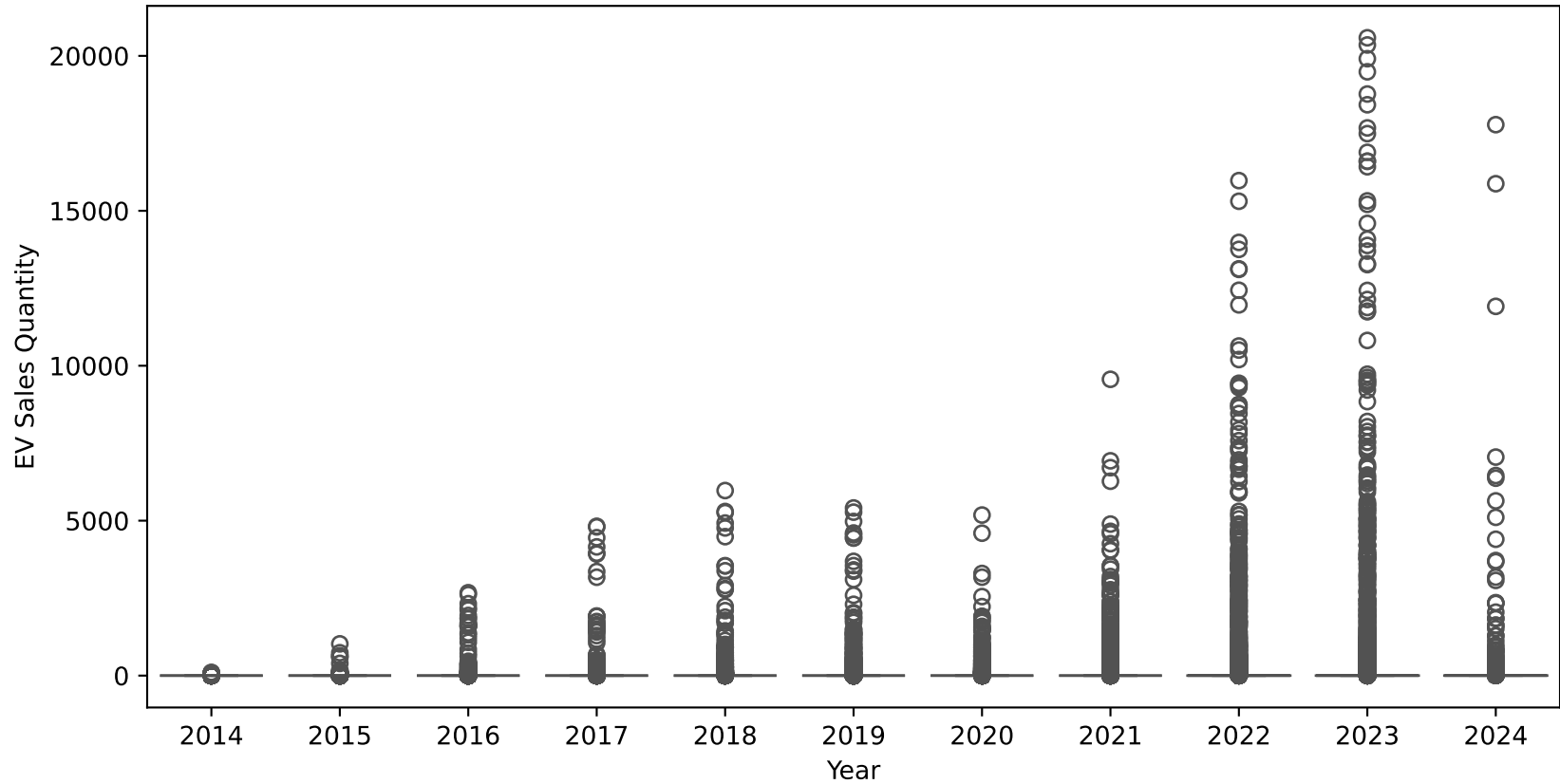
X-axis: EV Sales Quantity

Y-axis: Frequency

### Description:

This histogram shows the distribution of electric vehicle sales quantities. It indicates the frequency of different sales volumes and the overall spread of the data.

Yearly Spread of EV Sales



## Yearly Spread of EV Sales

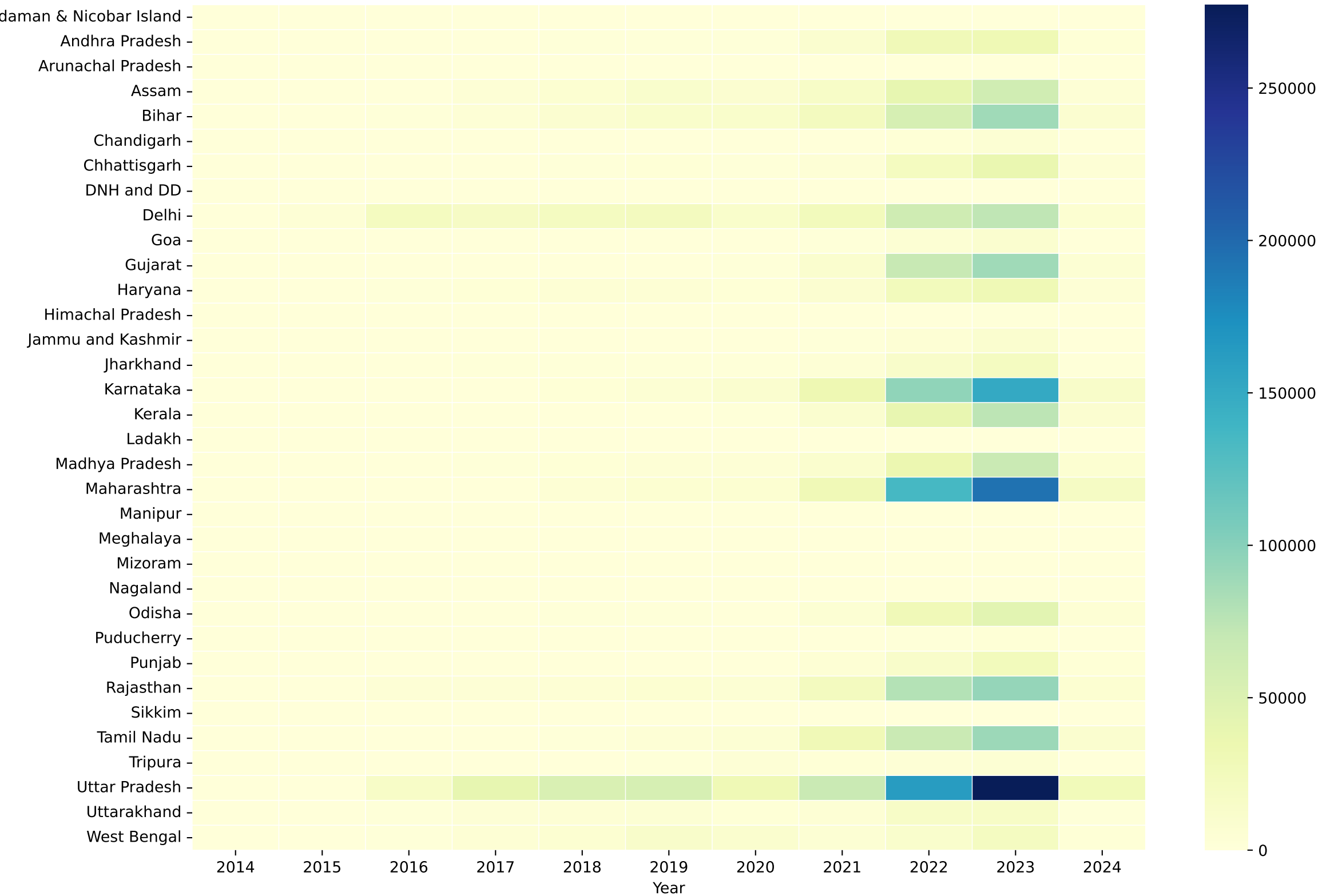
X-axis: Year

Y-axis: EV Sales Quantity

### Description:

This boxplot illustrates the spread and variability of EV sales quantities across different years. It highlights median values, quartiles, and potential outliers.

### Heatmap of EV Sales (State vs Year)





## Heatmap of EV Sales (State vs Year)

X-axis: Year

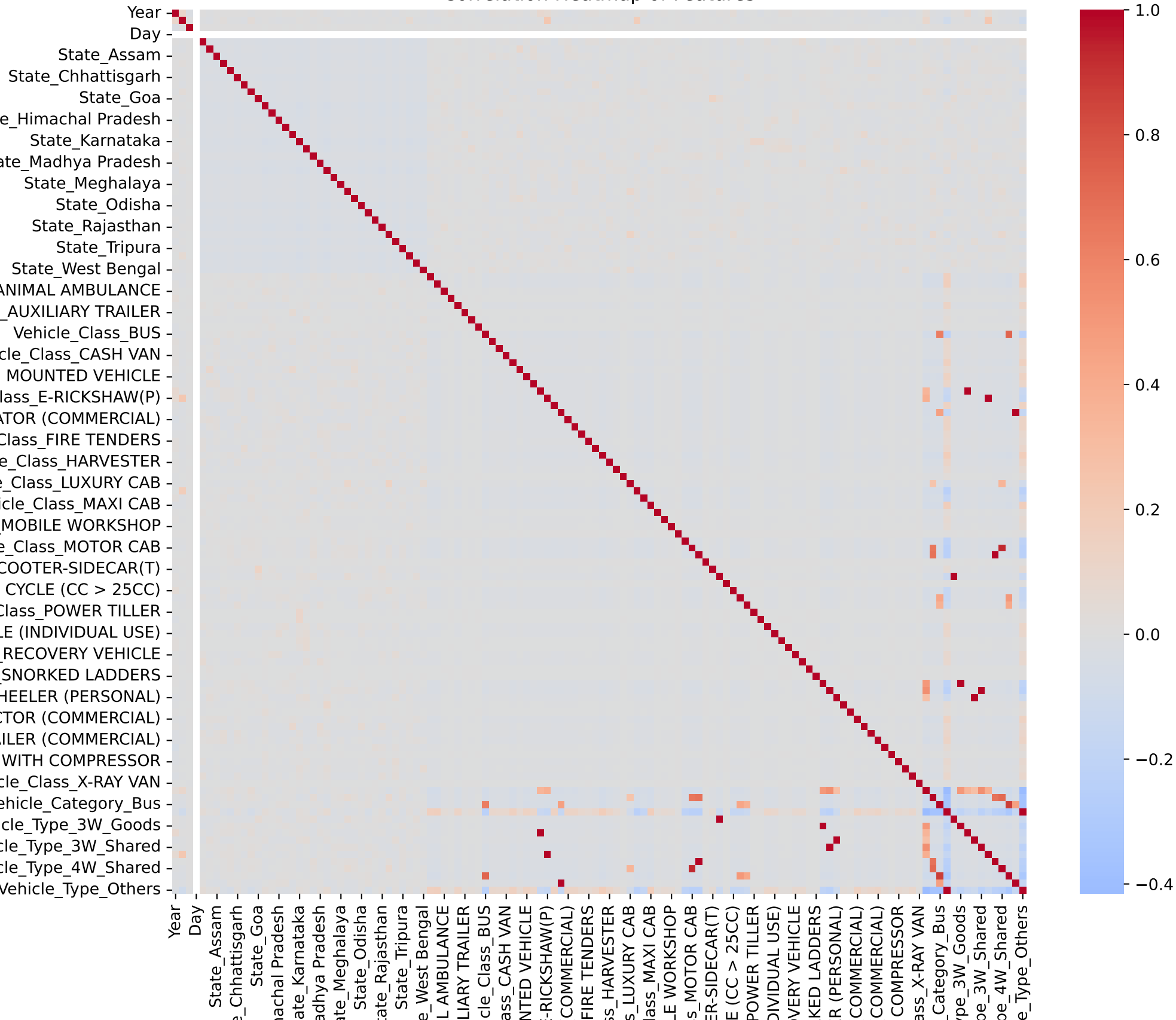
Y-axis: State

Description:

This heatmap visualizes the total EV sales quantity for each state across different years.

Darker colors indicate higher sales volumes.

## Correlation Heatmap of Features



## Correlation Heatmap of Features

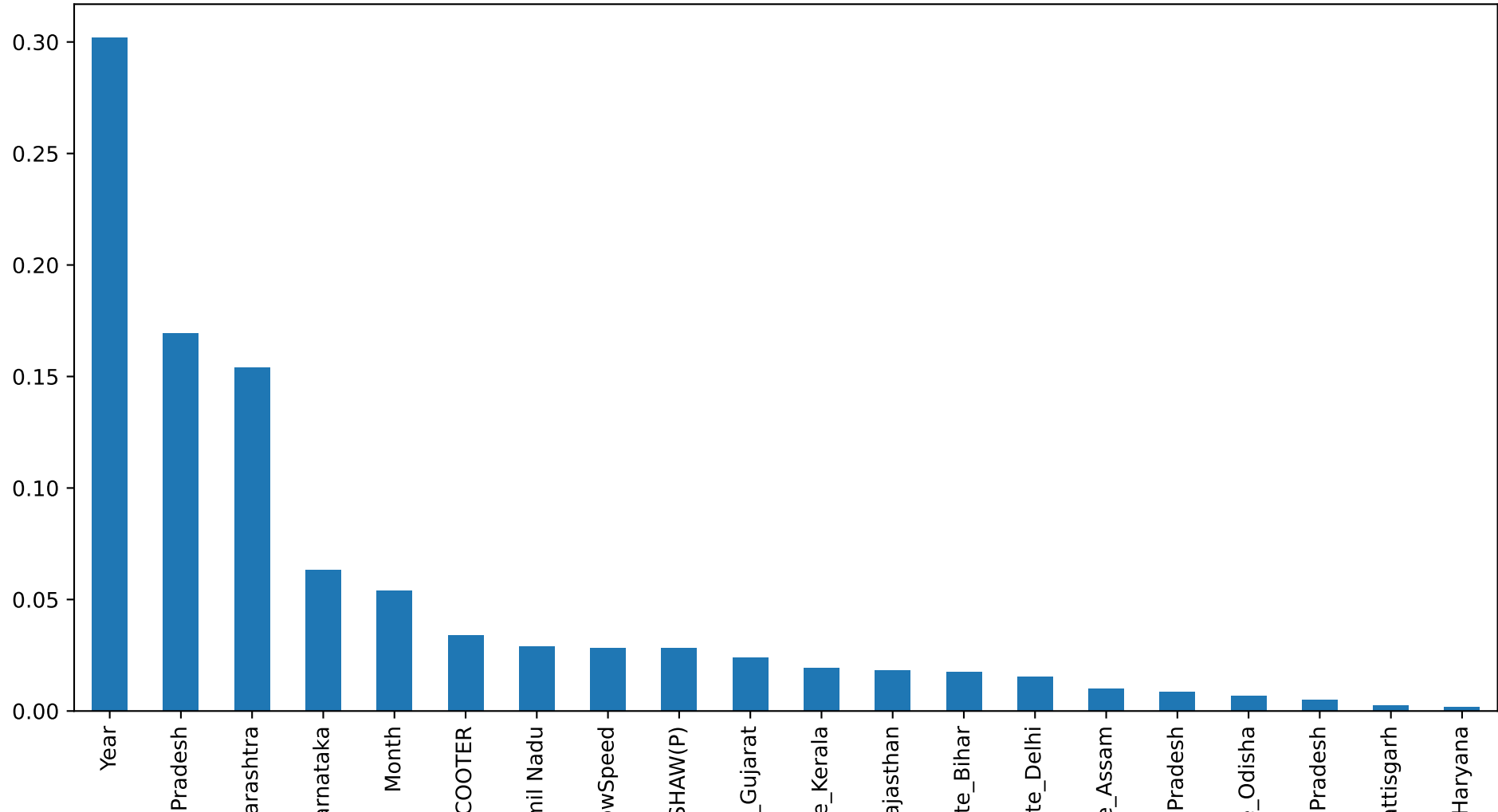
X-axis: Features

Y-axis: Features

Description:

This correlation heatmap shows the relationships between different features in the dataset.  
It helps  
identify which variables are correlated with EV sales quantity.

Top 20 Important Features



## Top 20 Important Features

X-axis: Features

Y-axis: Importance

### Description:

This bar chart shows the top 20 important features for predicting EV sales quantity using a Random Forest model. The model achieved a Root Mean Squared Error of 130.58 on the test set.