

# Professional Data Analysis Report

Comprehensive Analysis & Insights

**Report Generated:** November 30, 2025  
**Platform:** Insightify Professional Analytics  
**Version:** 2.0 (Dynamic Engine)  
**Status:** Confidential

## Executive Summary

### Report Overview:

This comprehensive data analysis report presents key insights and metrics from the provided dataset. The analysis covers 50,000 records with 11 columns.

### Dataset Composition:

- Numeric Columns: 5
- Categorical Columns: 6
- Date Columns: 0
- Missing Values: 0
- Duplicate Rows: 0

## Numeric Analysis

Column	Mean	Median	Min	Max
Year	2017.02	2017.00	2010.00	2024.00
Engine_Size_L	3.25	3.20	1.50	5.00
Mileage_KM	100307.20	100388.50	3.00	199996.00
Price_USD	75034.60	75011.50	30000.00	119998.00
Sales_Volume	5067.51	5087.00	100.00	9999.00

## Categorical Analysis

### Column: Model

Unique Values: 11

Most Frequent: 7 Series

Value	Count
7 Series	4666
i3	4618
i8	4606
3 Series	4595
5 Series	4592
X1	4570
X3	4497
X5	4487
M5	4478
X6	4478

### Column: Region

Unique Values: 6

Most Frequent: Asia

Value	Count
Asia	8454
Middle East	8373
North America	8335
Europe	8334
Africa	8253
South America	8251

### Column: Color

Unique Values: 6

Most Frequent: Red

Value	Count
Red	8463
Silver	8350
Grey	8348
White	8304
Black	8273
Blue	8262

### Column: Fuel\_Type

Unique Values: 4

Most Frequent: Hybrid

Value	Count
Hybrid	12716
Petrol	12550

Electric	12471
Diesel	12263

**Column: Transmission**

Unique Values: 2

Most Frequent: Manual

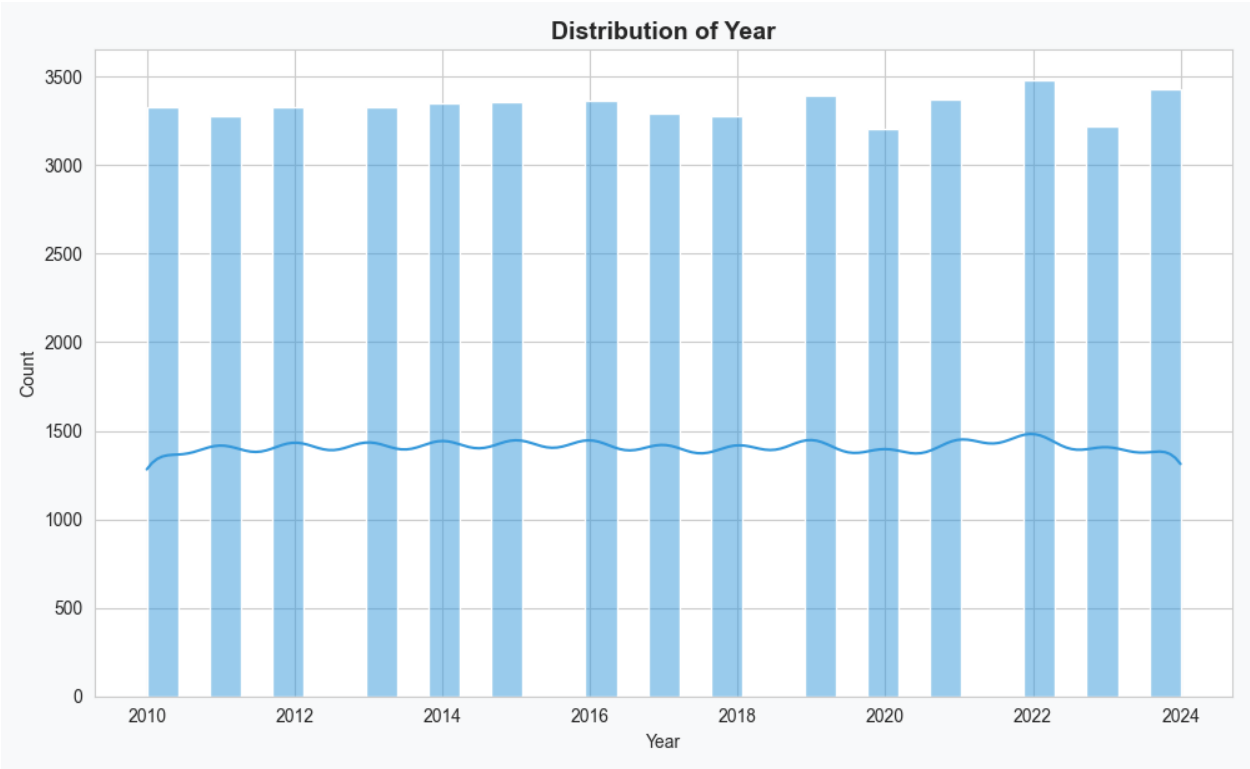
Value	Count
Manual	25154
Automatic	24846

# Correlation Analysis

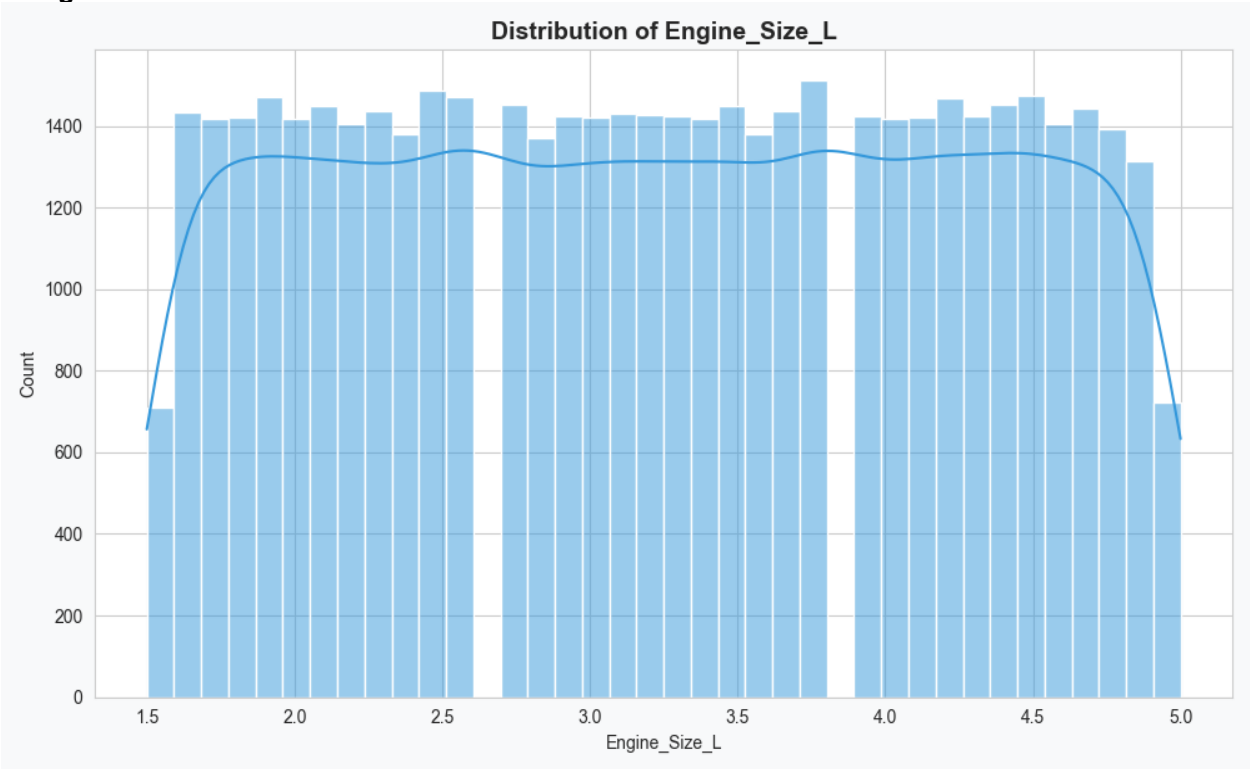
Significant correlations found between variables:  
No significant correlations found.

# Data Visualizations

0 Dist Year

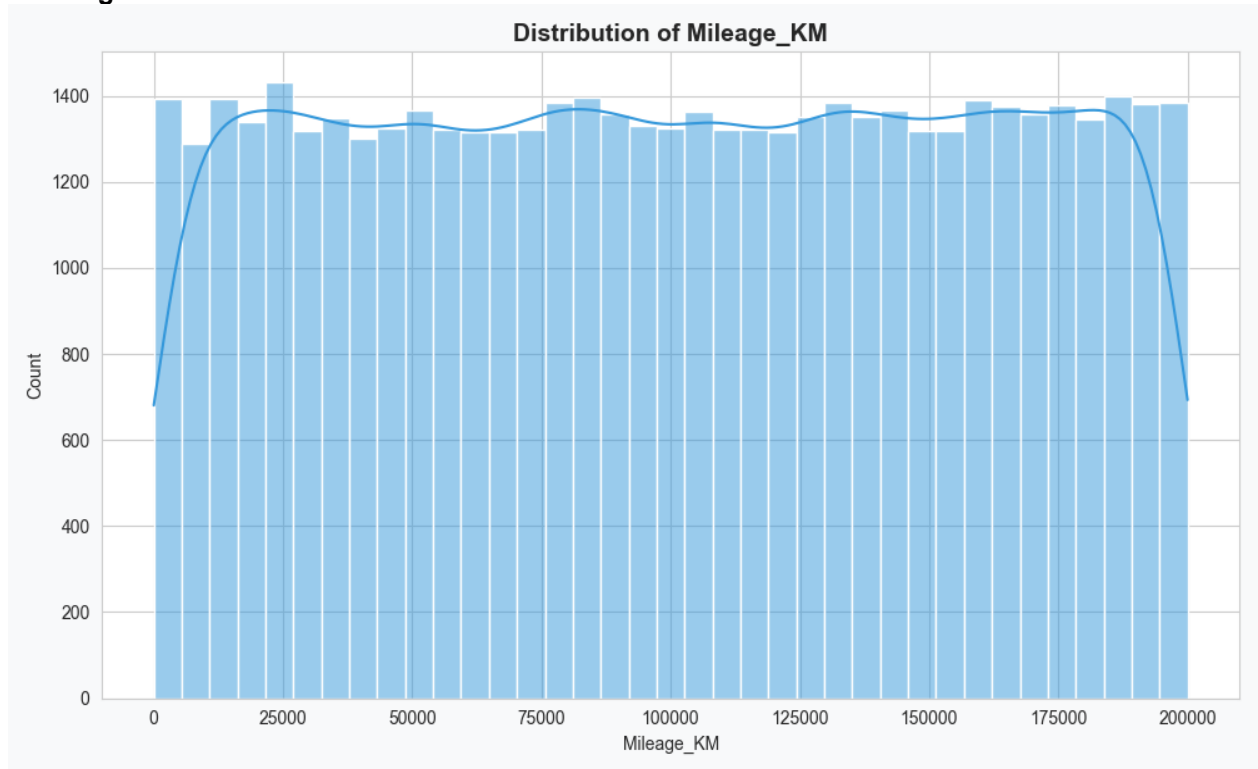


1 Dist Engine Size L

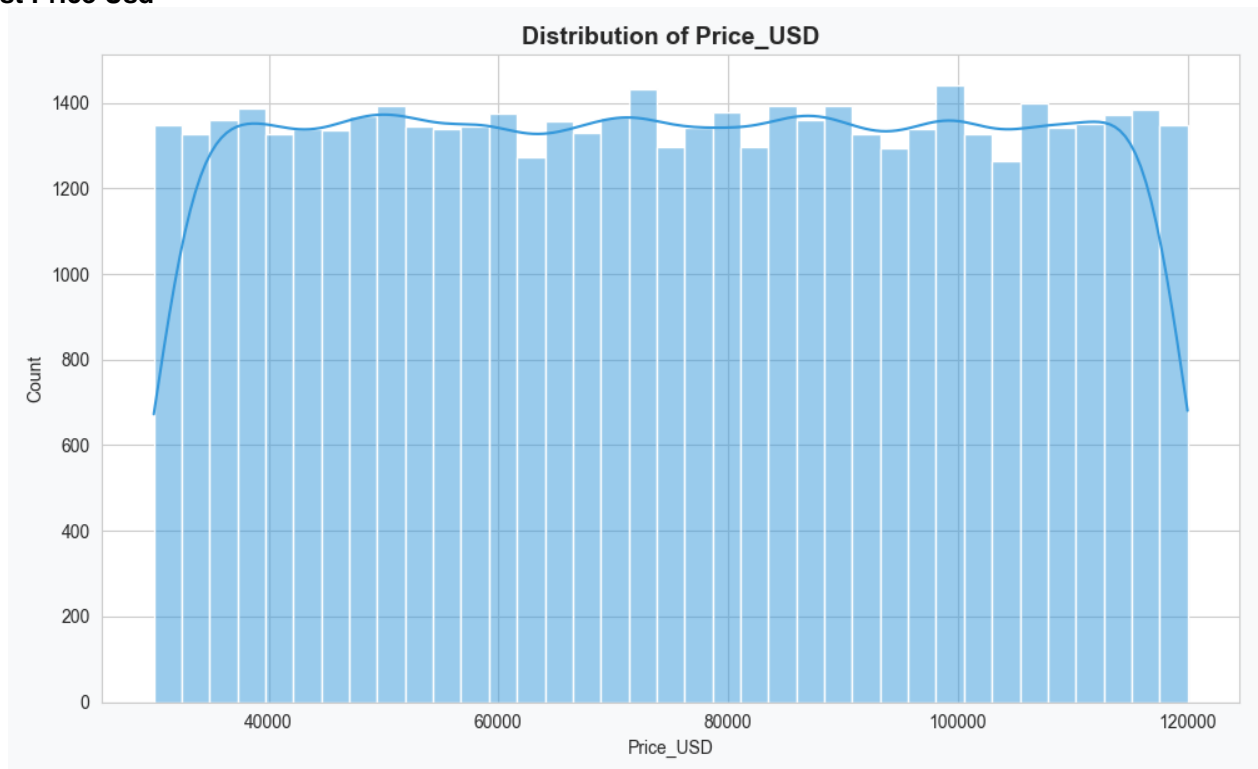




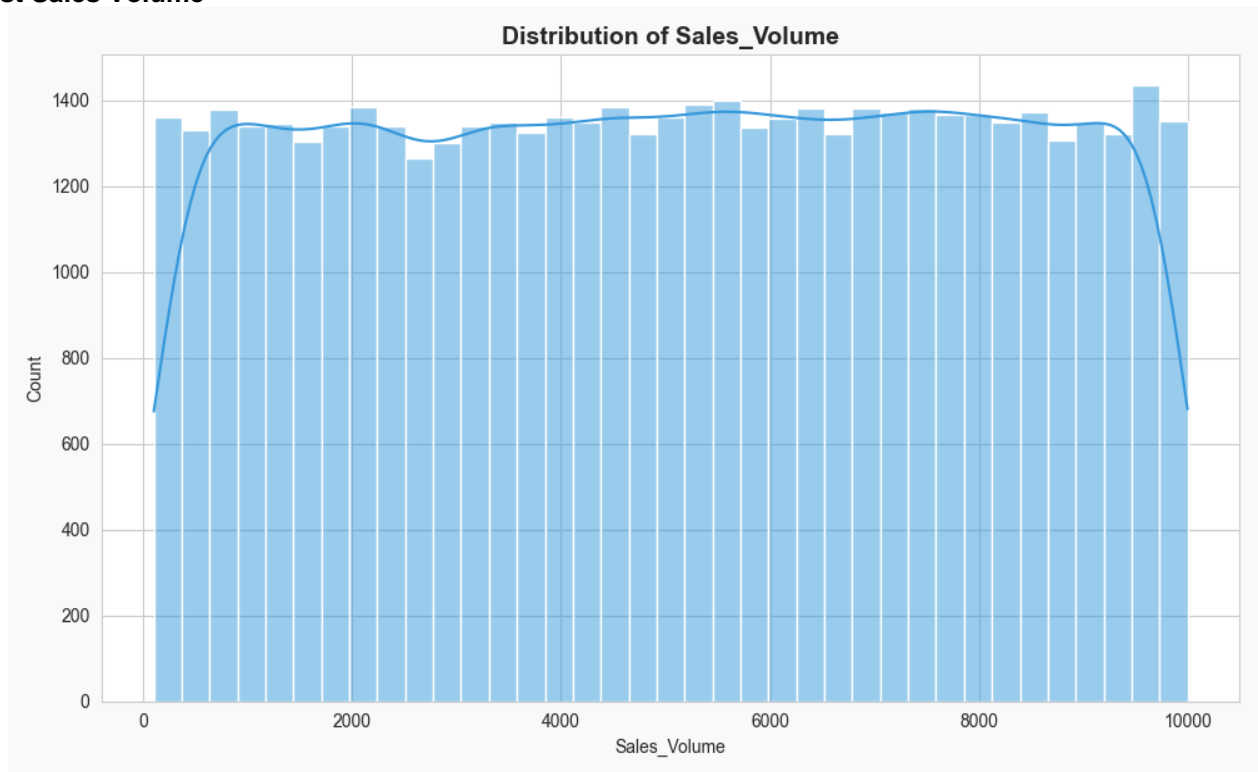
## 2 Dist Mileage Km



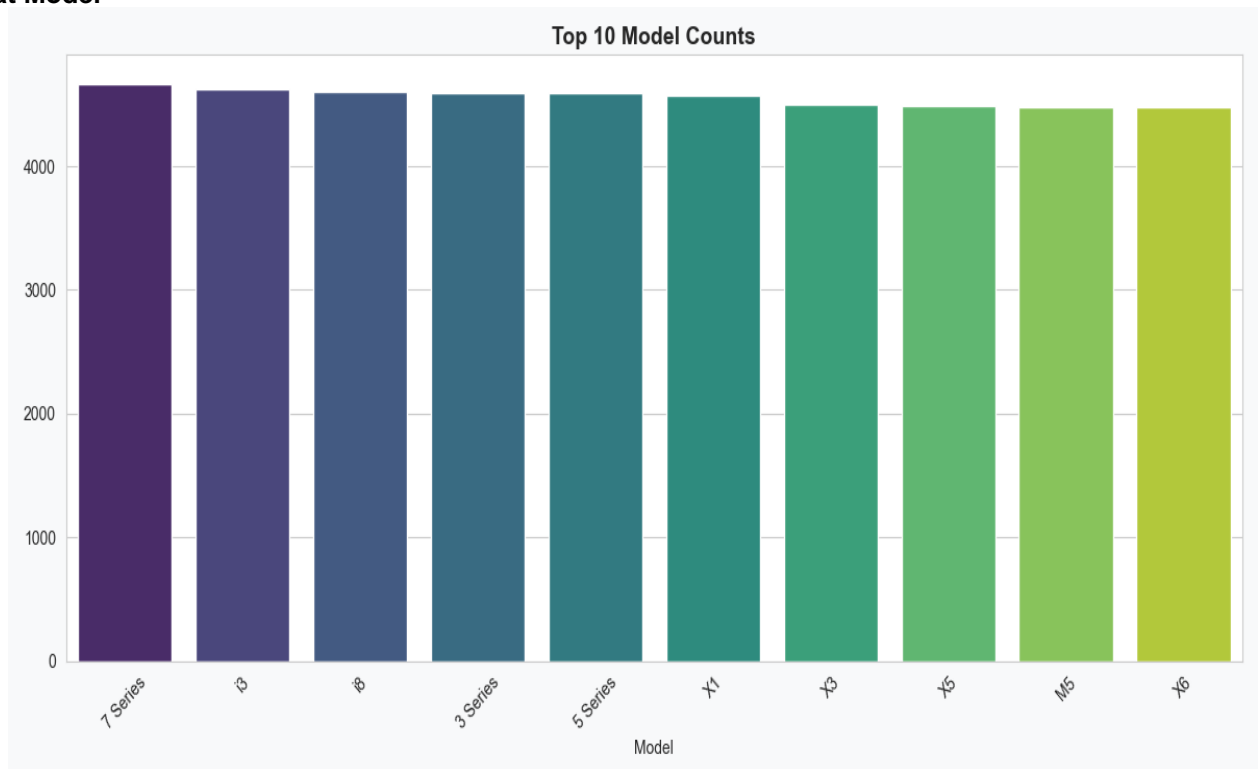
## 3 Dist Price Usd



#### 4 Dist Sales Volume

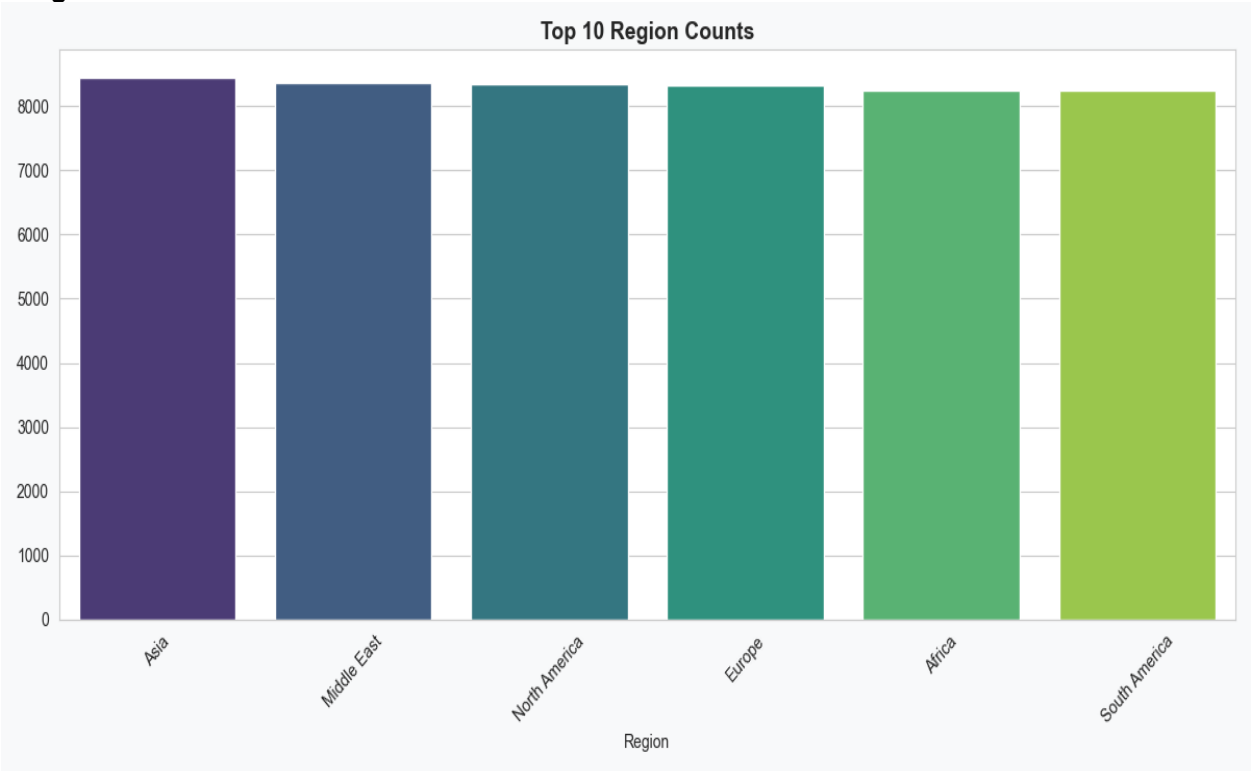


#### 5 Cat Model

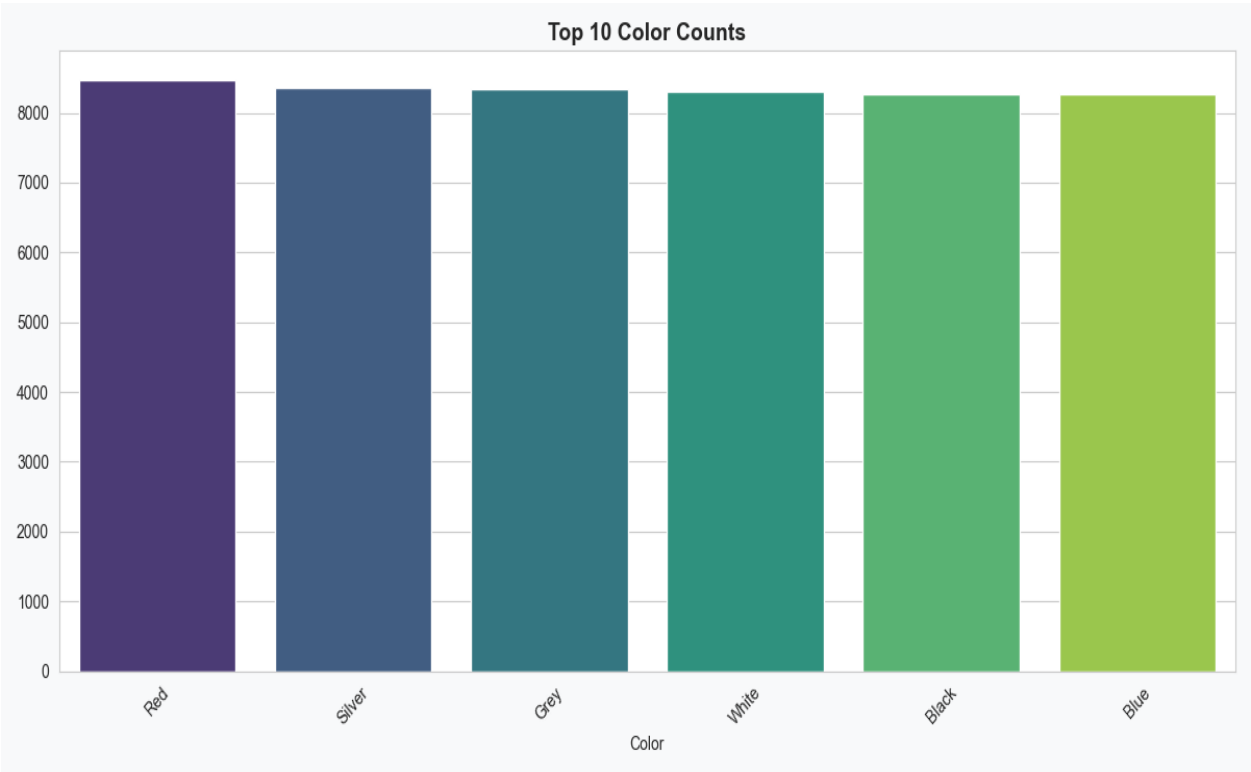




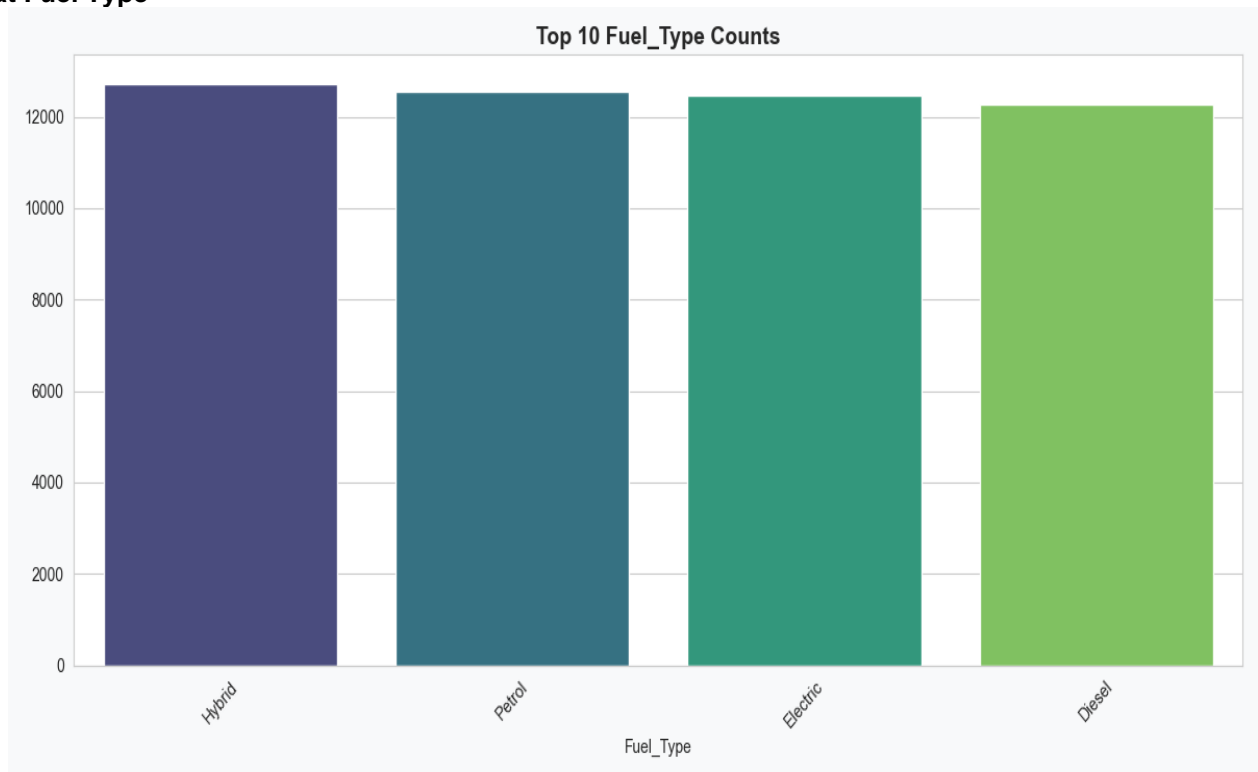
6 Cat Region



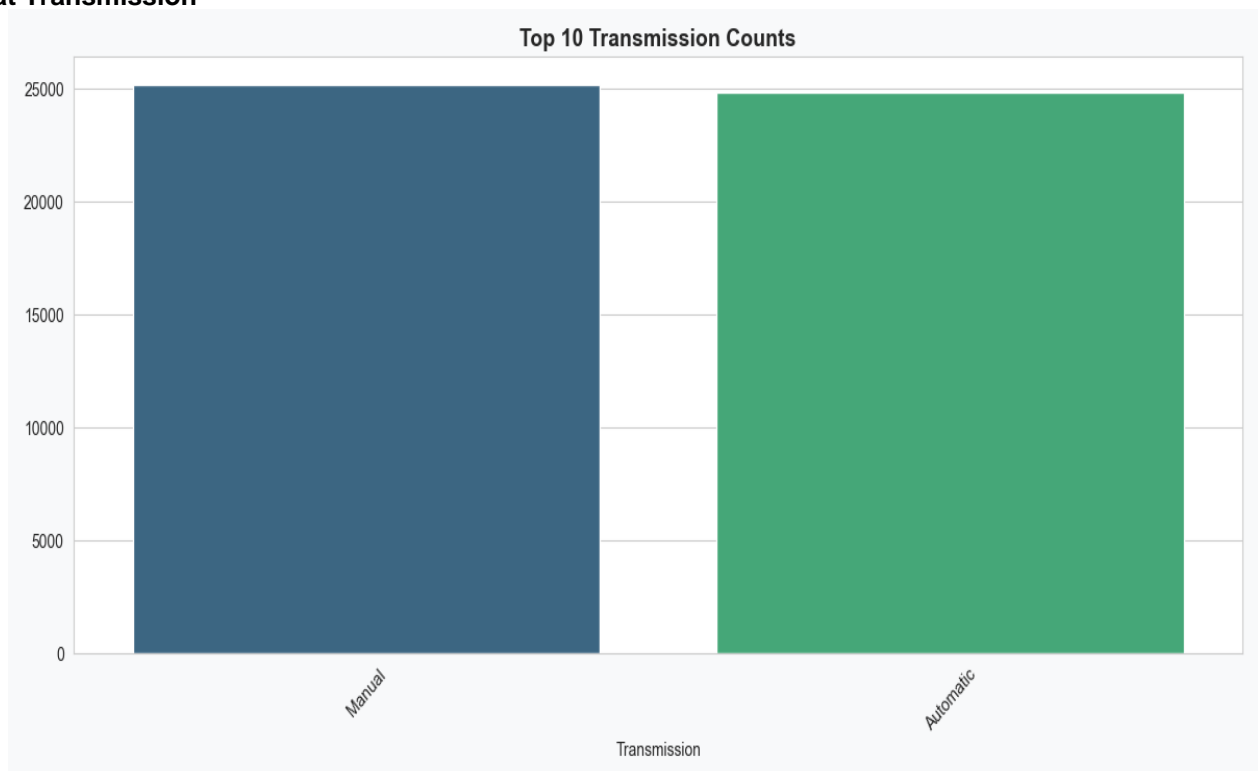
7 Cat Color



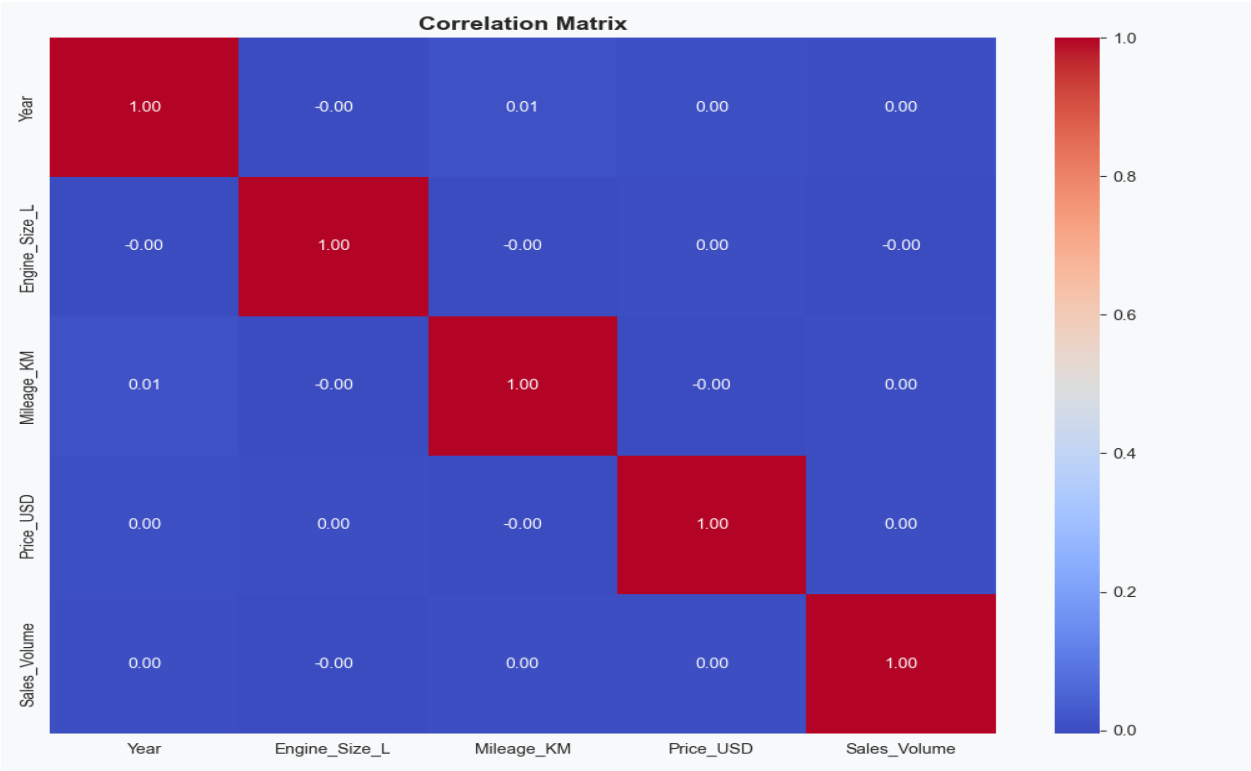
## 8 Cat Fuel Type



## 9 Cat Transmission



1 Correlation



## Conclusions & Recommendations

### Automated Insights:

1. **Data Quality:** The dataset has been analyzed for completeness and integrity. Please review the Executive Summary for details on missing values or duplicates.
2. **Statistical Trends:** The Numeric Analysis section highlights the central tendencies and spread of your data. Outliers or extreme values can be identified from the Min/Max values.
3. **Relationships:** The Correlation Analysis (if applicable) has identified potential relationships between variables. Strong correlations (close to 1 or -1) suggest predictive power.

### Recommendations:

- Investigate any high correlation pairs to understand causal relationships.
- Review categorical distributions to identify dominant groups or rare classes.
- Use the generated visualizations to present findings to stakeholders.

*Report Generated: 2025-11-30 20:17:31*

*This report contains confidential business information and should be handled accordingly.*