INSIGHTIFY
Professional Data Analysis & Report Generation

Professional Data Analysis Report

Comprehensive Analysis & Insights

Report Generated: November 28, 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

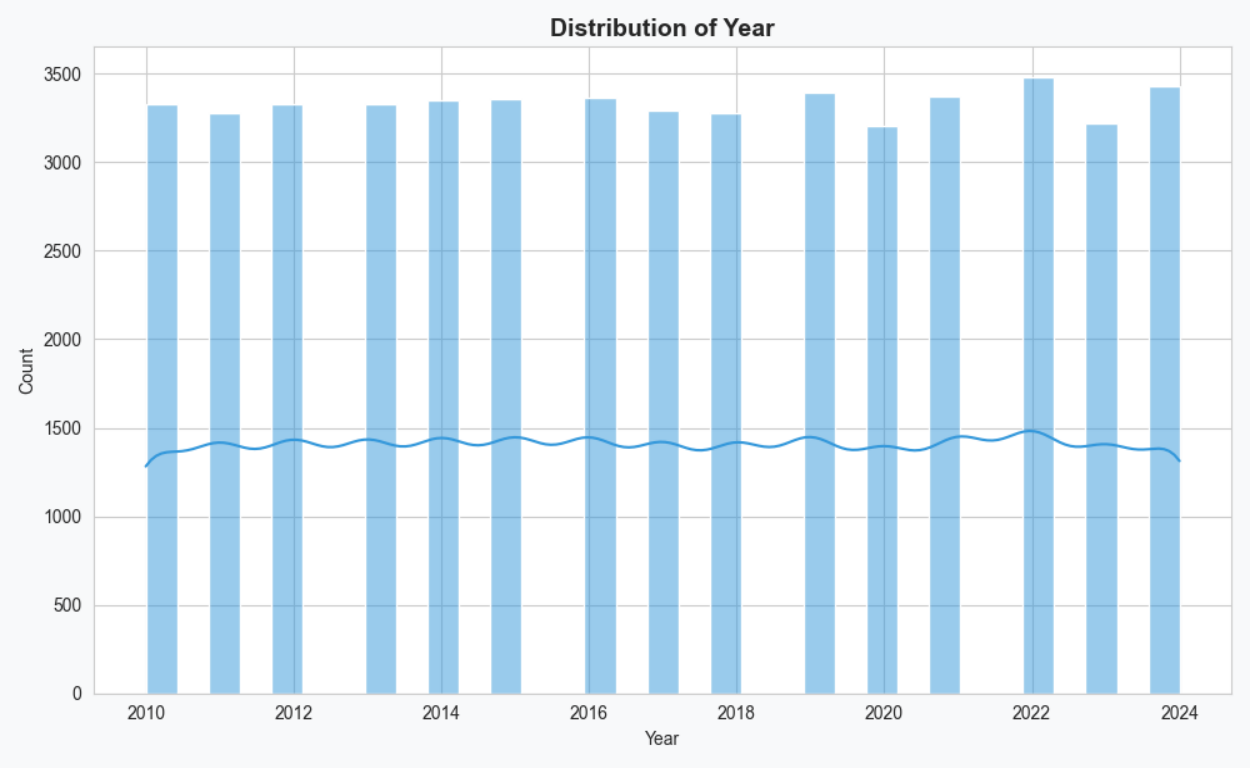
Value	Count
Manual	25154
Automatic	24846

Correlation Analysis

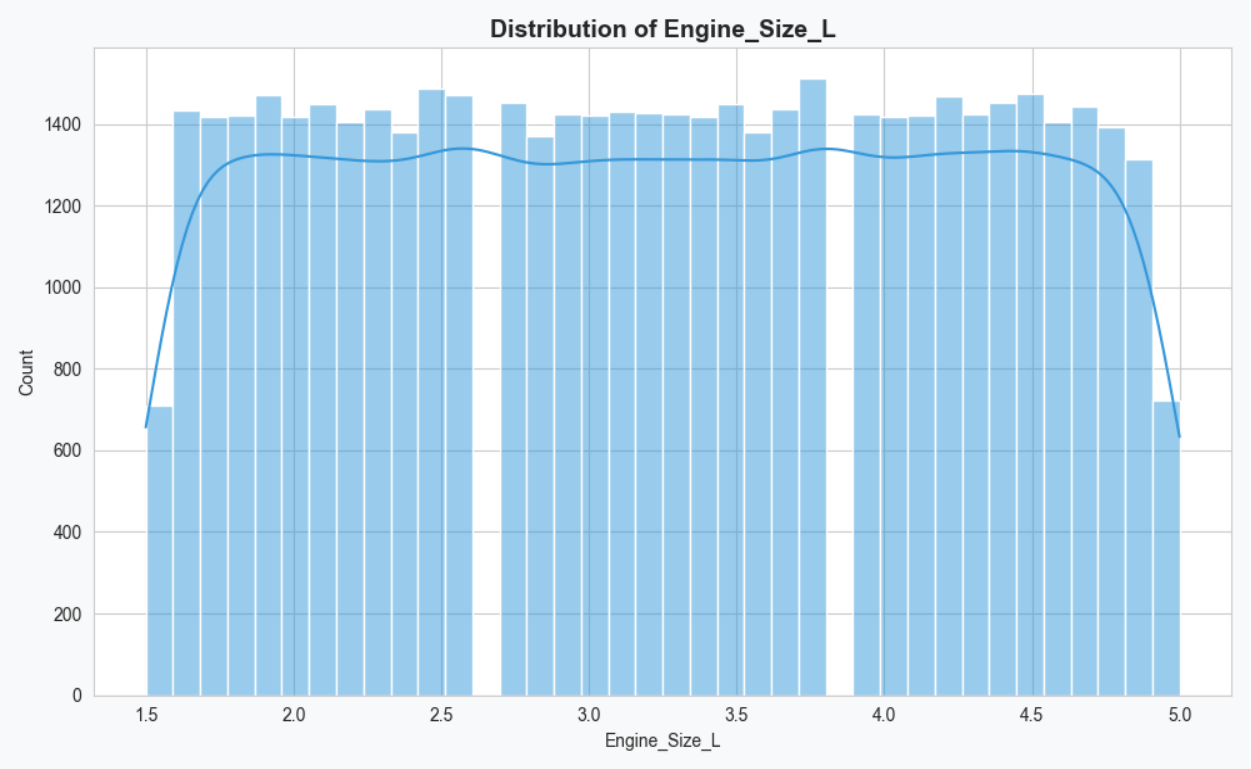
Significant correlations found between variables:
No significant correlations found.

Data Visualizations

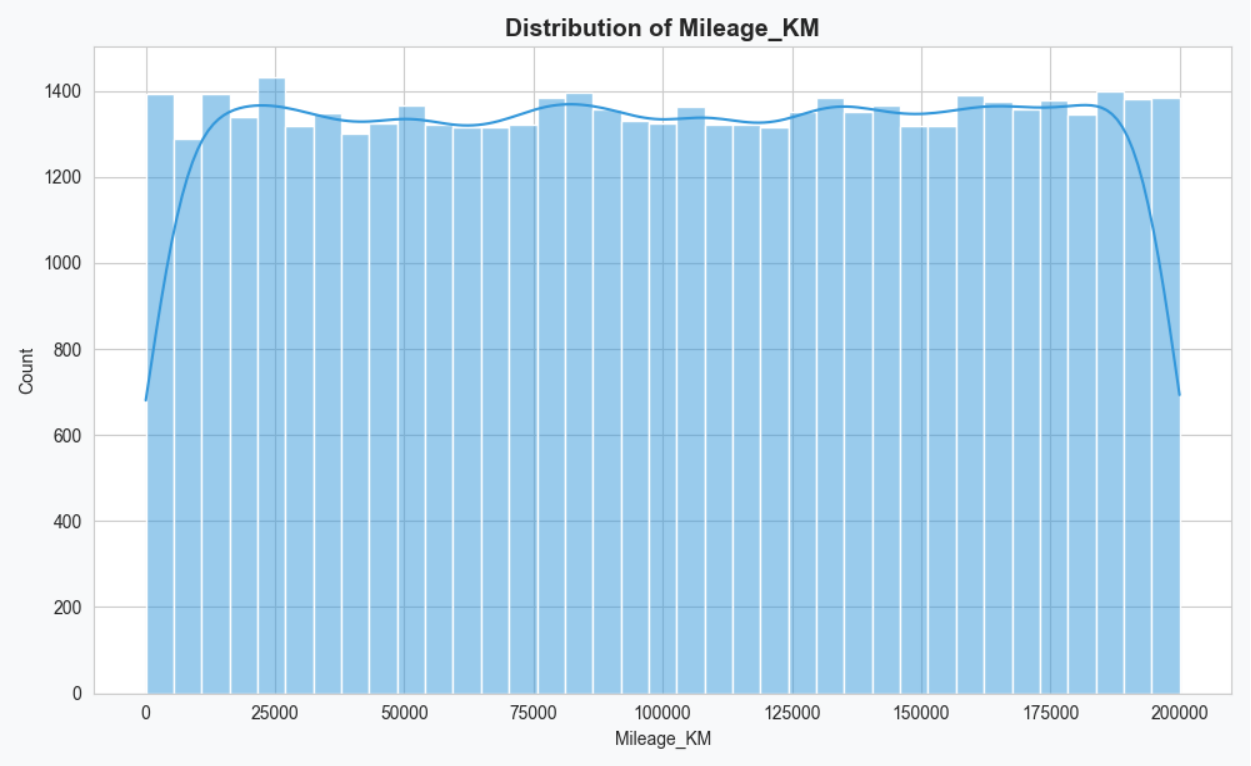
0 Dist Year



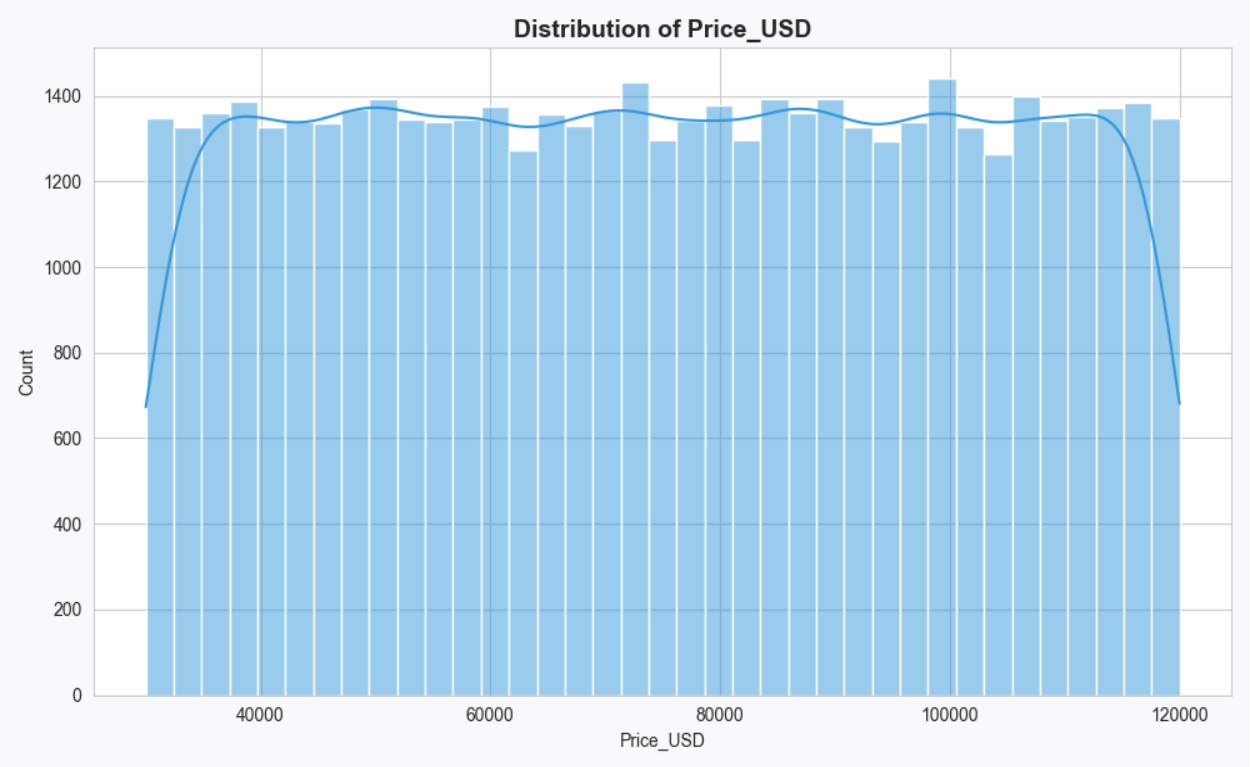
1 Dist Engine Size L



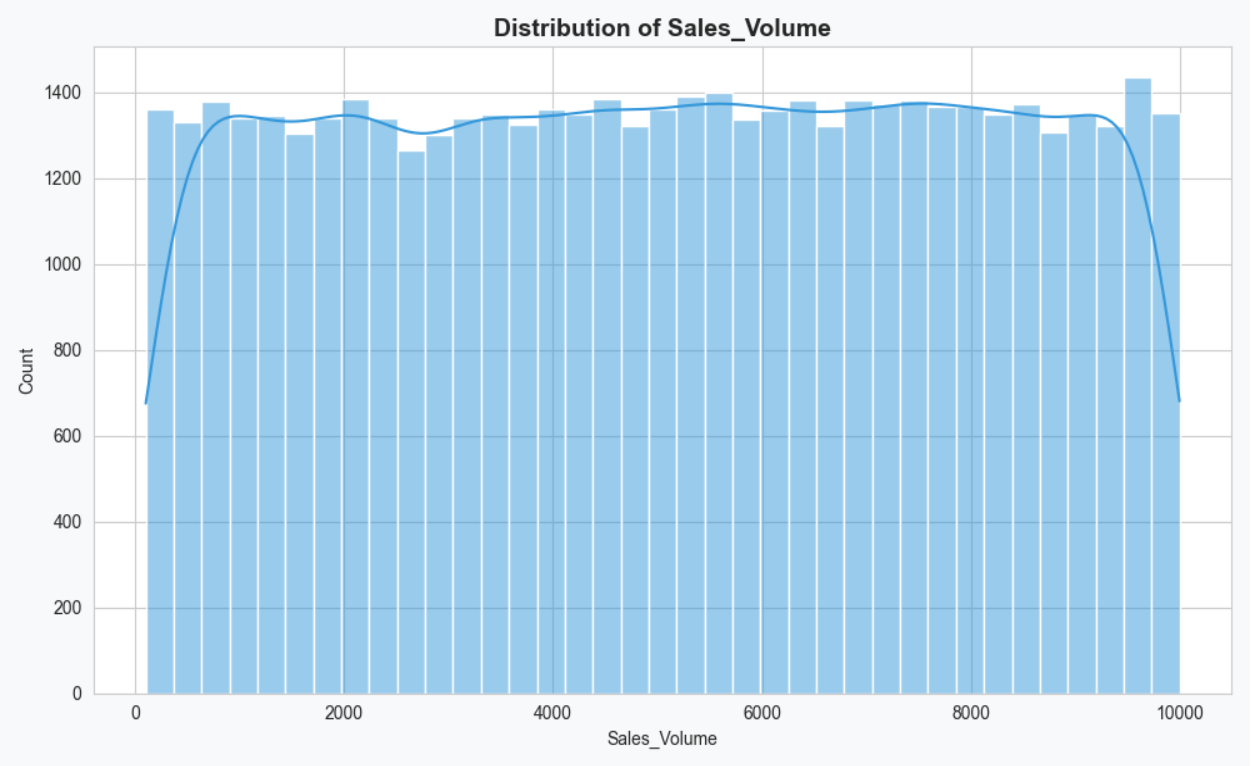
2 Dist Mileage Km



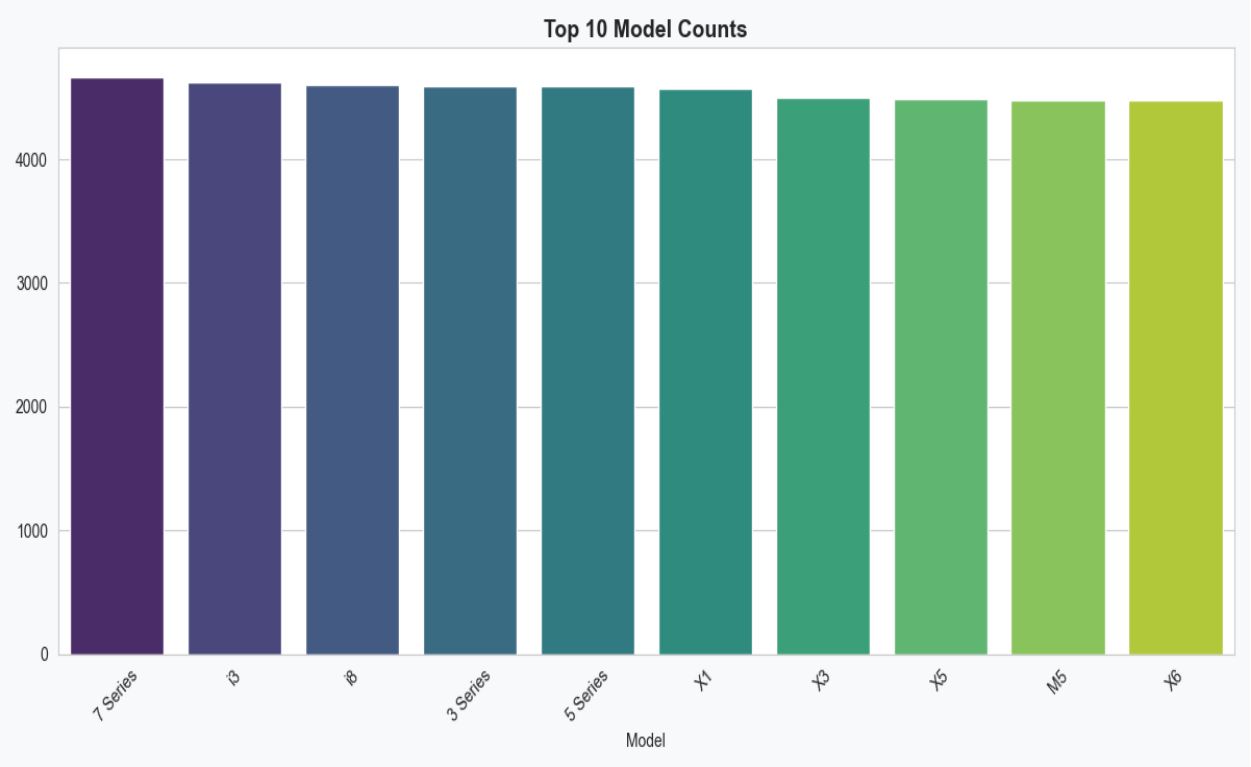
3 Dist Price Usd



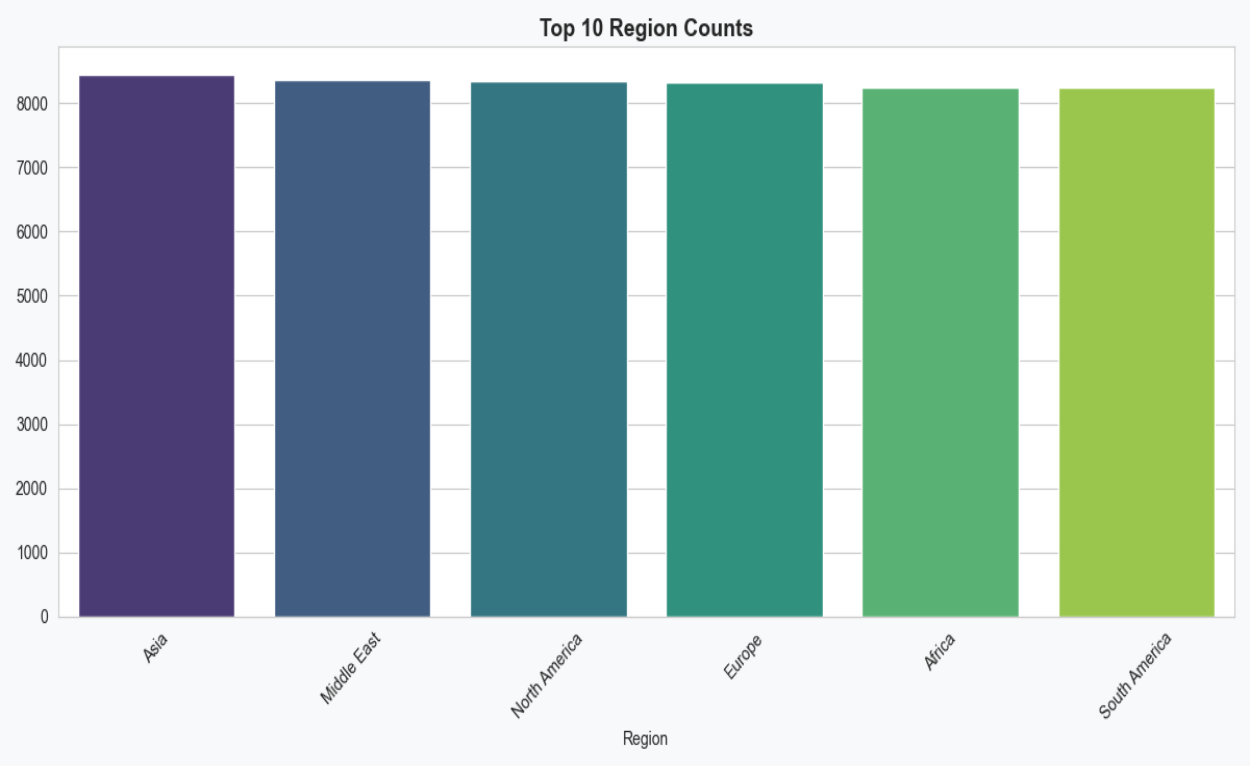
4 Dist Sales Volume



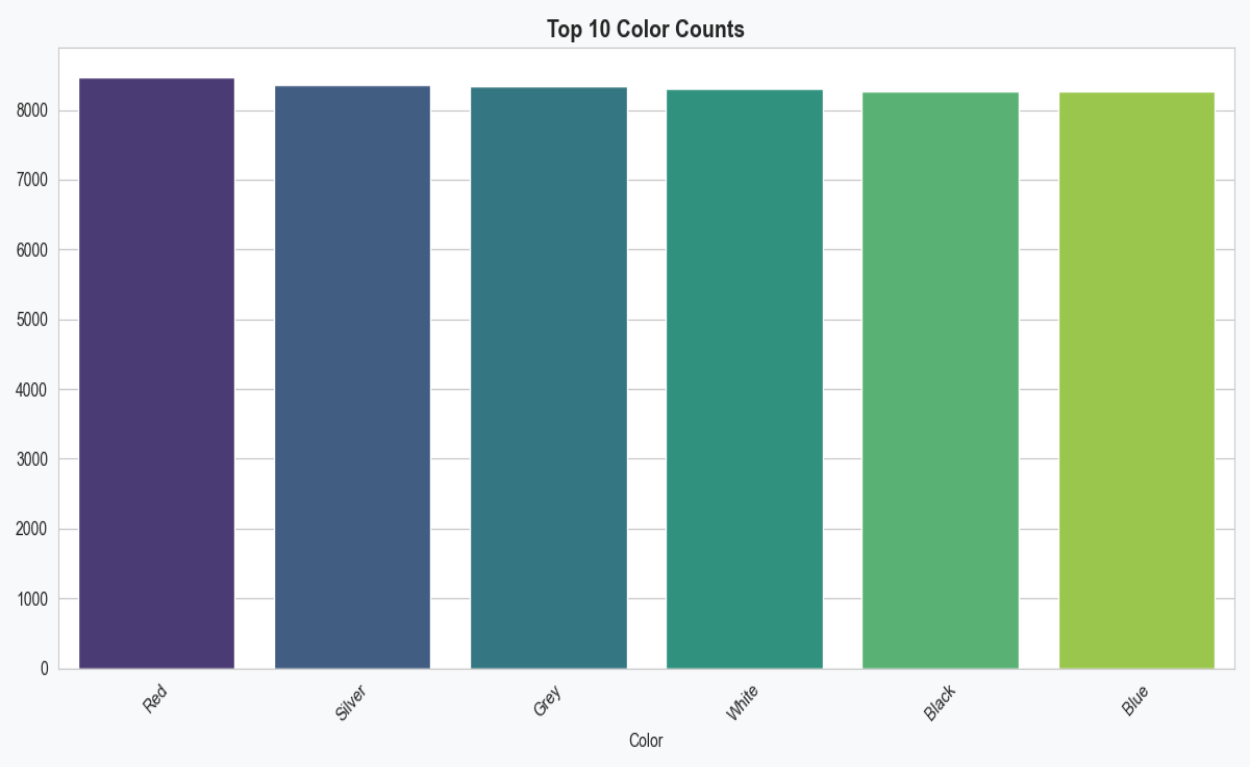
5 Cat Model



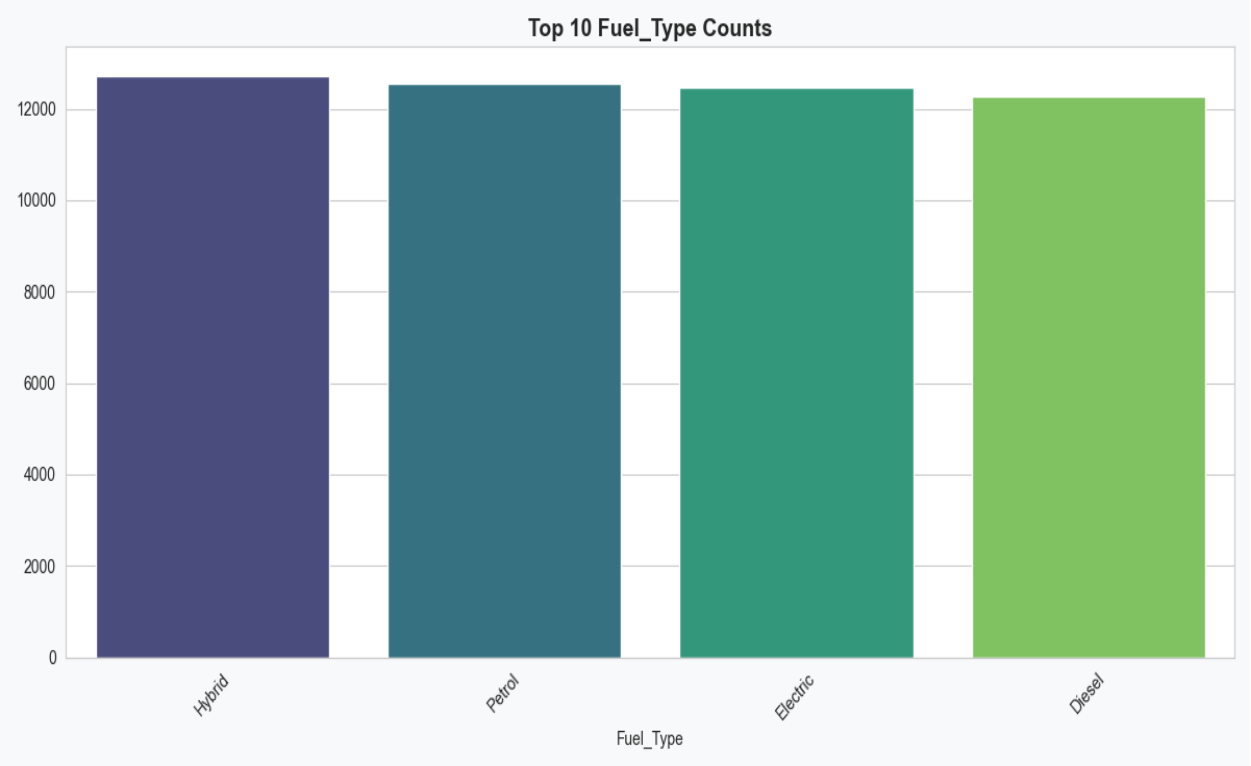
6 Cat Region



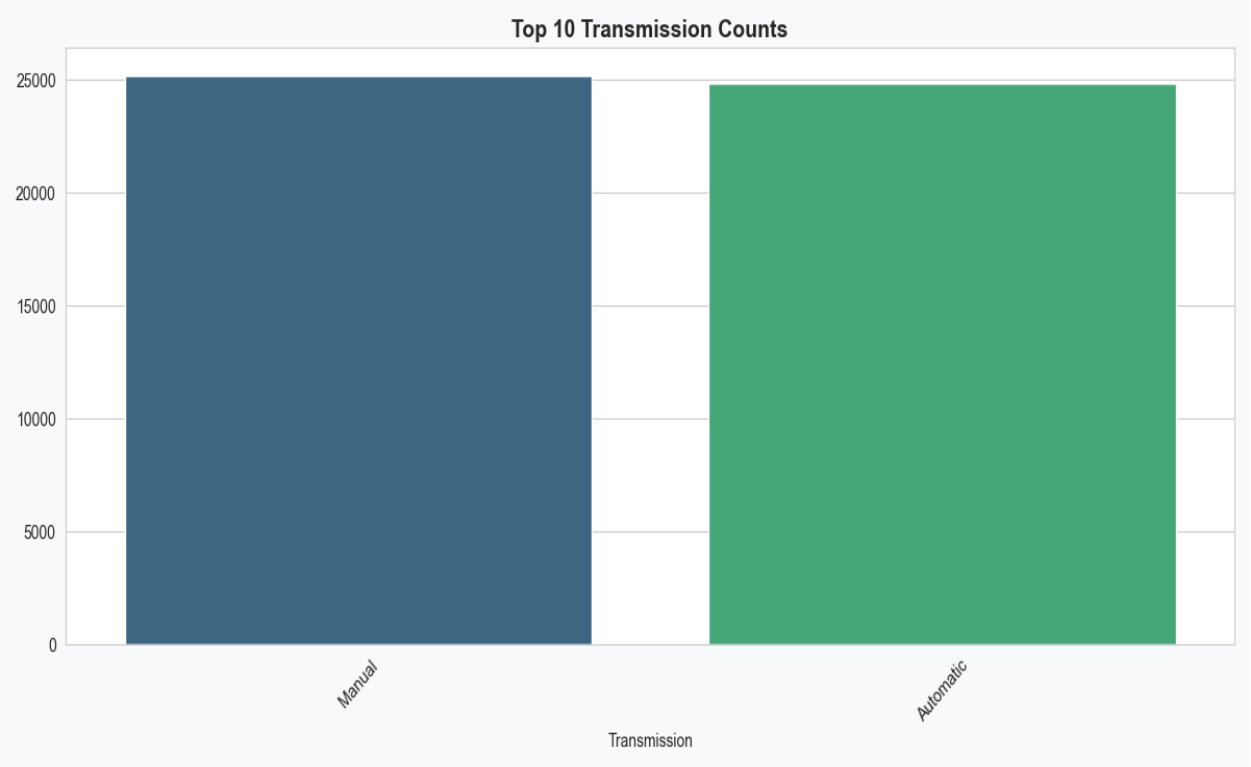
7 Cat Color



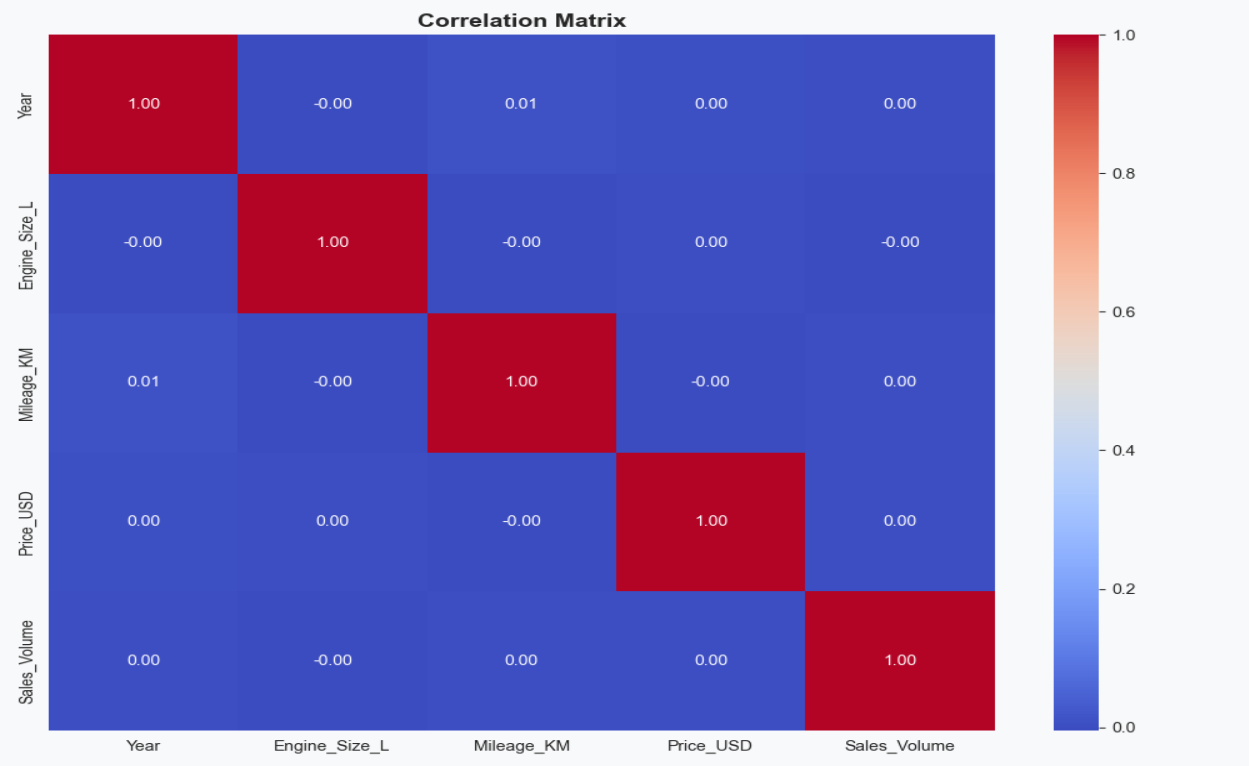
8 Cat Fuel Type



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: 2025-11-28 00:05:31
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