

Universal Analyst Report

Comprehensive Analysis of Amazon_stock_data Dataset

Report Date: 2025-08-15 22:16:56
Dataset Name: Amazon_stock_data
Analysis Type: Full EDA & Modeling
Report Version: 1.0

Universal Analyst Model Report

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Dataset: Amazon_stock_data

Step 1: Dataset Overview

- original_shape: (7093, 6)
- final_shape: (7093, 3)
- constant_columns_removed: []
- highly_correlated_columns_removed: ['High', 'Low', 'Open']
- columns_dropped_missing: []
- column_types: {'Date': 'id-like', 'Close': 'numerical', 'Volume': 'numerical'}
- pca_applied: False

Step 2: Exploratory Data Analysis (EDA)

Exploratory Data Analysis Report

Dataset Overview

- Number of rows: 7093
- Number of columns: 3

Summary Statistics

Numerical Features

	count	mean	median	std	min	max	skew	kurtosis
Close	7093	43.1151	9.2645	60.9995	0.069792	242.06	1.39392	0.62552
Volume	7093	1.34724e+08	9.936e+07	1.36989e+08	9.744e+06	2.08658e+09	4.7065	34.8444

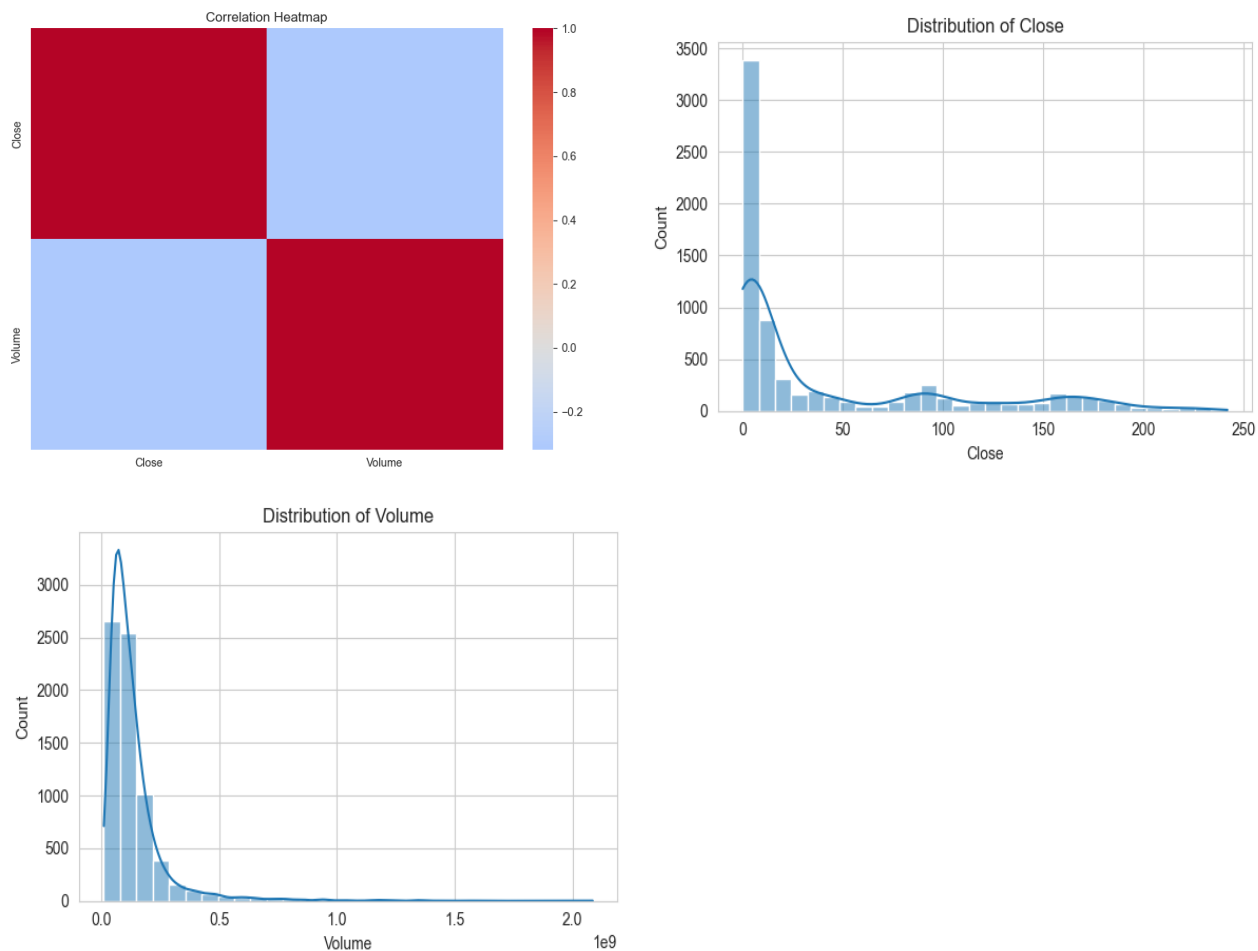
Categorical Features

	unique_count	mode_freq	missing
Date	7093	1	0

Key Insights

- Feature 'Close' has 147 potential outliers.
- Feature 'Volume' has 478 potential outliers.
- Features with high variance: Volume

Visualizations



Step 3: Insight Extraction

Data Insight Report

Dataset Summary

- Number of rows: 7093
- Number of columns: 3
- Target column: None
- Problem type: clustering

Top Influential Features

No influential features identified or no target column.

Summary Statistics of Top Features

No summary statistics available.

Outlier Counts per Numeric Feature

- Close: 147 outliers detected
- Volume: 478 outliers detected

Next Steps

- Consider clustering or unsupervised learning techniques.

Conclusion

This report summarizes the data ingestion, preprocessing, exploratory analysis, insights, and modeling results. Further analysis and model tuning may be required based on business needs.