



# DataStats

## ACPyen.xlsx

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Date:	2025-08-08 12:07:11
Report Type:	Data Analysis Report

### Executive Summary

This report presents a comprehensive analysis of the dataset 'ACPyen.xlsx' containing 147 rows and 8 columns. The analysis includes 9 different analytical approaches to provide insights into the data structure, patterns, and relationships.

#### Key Findings:

- **Descriptive\_Stats:** Descriptive Stats analysis completed successfully.
- **Inferential\_Stats:** Inferential Stats analysis completed successfully.
- **Regression:** Regression analysis completed successfully.
- **Machine\_Learning:** Machine Learning analysis completed successfully.
- **Clustering:** Clustering analysis completed successfully.
- **Dimensionality:** Dimensionality analysis completed successfully.
- **Time\_Series:** Time Series analysis completed successfully.
- **Correlation:** Correlation analysis completed successfully.
- **Visualization:** Visualization analysis completed successfully.

## Dataset Overview

Attribute	Value
Dataset Name	ACPyen.xlsx
File Format	XLSX
Upload Date	2025-08-08 07:26:53
Number of Rows	147
Number of Columns	8
Missing Values	0.0%
Numeric Columns	7
Categorical Columns	1

## Descriptive Stats Analysis

Descriptive statistics provide a summary of the central tendency, variability, and distribution of the dataset.

### Results Summary:

Descriptive Stats analysis completed successfully.

### Statistical Results:

### Visualizations:

### Interpretation:

The descriptive stats analysis provides valuable insights into the data patterns and structure.

## Inferential Stats Analysis

Inferential statistics help draw conclusions about the population based on sample data.

### Results Summary:

Inferential Stats analysis completed successfully.

### Statistical Results:

### Visualizations:

### Interpretation:

The inferential stats analysis provides valuable insights into the data patterns and structure.

## Regression Analysis

Regression analysis examines relationships between dependent and independent variables.

### Results Summary:

Regression analysis completed successfully.

### Statistical Results:

### Visualizations:

### Interpretation:

The regression analysis provides valuable insights into the data patterns and structure.

## Machine Learning Analysis

Machine learning models provide predictive insights and pattern recognition.

### Results Summary:

Machine Learning analysis completed successfully.

### Statistical Results:

### Visualizations:

### Interpretation:

The machine learning analysis provides valuable insights into the data patterns and structure.

## Clustering Analysis

Clustering analysis groups similar data points to identify hidden patterns.

### Results Summary:

Clustering analysis completed successfully.

### Statistical Results:

### Visualizations:

### Interpretation:

The clustering analysis provides valuable insights into the data patterns and structure.

## Dimensionality Analysis

Dimensionality reduction techniques help visualize high-dimensional data.

### Results Summary:

Dimensionality analysis completed successfully.

### Statistical Results:

### Visualizations:

### Interpretation:

The dimensionality analysis provides valuable insights into the data patterns and structure.

## Time Series Analysis

Time series analysis examines data points collected over time to identify trends and patterns.

### Results Summary:

Time Series analysis completed successfully.

### Statistical Results:

### Visualizations:

### Interpretation:

The time series analysis provides valuable insights into the data patterns and structure.



## Correlation Analysis

Correlation analysis measures the strength and direction of relationships between variables.

### Results Summary:

Correlation analysis completed successfully.

### Statistical Results:

### Visualizations:

### Interpretation:

The correlation analysis provides valuable insights into the data patterns and structure.

## Visualization Analysis

Data visualizations provide intuitive understanding of data patterns and distributions.

### Results Summary:

Visualization analysis completed successfully.

### Statistical Results:

### Visualizations:

### Interpretation:

The visualization analysis provides valuable insights into the data patterns and structure.

Report generated by DataStats - Advanced Data Analytics Platform  
Generated on 2025-08-08 at 12:07:11  
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