



# DataStats

## ACPyen.xlsx

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### 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.

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