

Comprehensive Data Analysis Report

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■ Basic Statistics

Dataset Overview:

Rows: 2200

Columns: 12

Memory Usage: 0.32 MB

Numeric Columns Summary:

Descriptive statistics available for numeric columns

■ AI-Generated Insights

Analysis:

- The dataset contains 2200 rows and 12 columns with no missing values.
- The data types include object (State), int64 (Year), and float64 for the crime rates and population.
- The dataset covers crime rates, population, and other related statistics for different states over the years 1960 to 2003.
- The population ranges from 226,167 to 35,484,453 with a mean of approximately 4,609,092.
- The crime rates vary across different categories with means ranging from 6.38 (Murder Rate) to 3736.73 (Property Crime Rate).
- The data is positively skewed for most variables, indicating a right-skewed distribution.
- The kurtosis values suggest that the data is relatively less peaked compared to a normal distribution.
- Top correlations include Property Crime Rate with Larceny & Theft Rate, and Violent Crime Rate with Aggravated Assault Rate.

Actionable Insights:

1. Focus on states with higher crime rates for targeted interventions and law enforcement strategies.
2. Explore the relationship between different crime rates to identify potential patterns or factors influencing criminal activities.
3. Monitor states with high burglary rates as they show a strong correlation with property crime and larceny & theft rates.
4. Consider the impact of population size on crime rates and adjust resource allocation accordingly.
5. Conduct further analysis to understand the trends over time and identify any significant changes in

crime rates.