Title: Exploratory Data Analysis of Drug Dataset

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GitHub Repository: [Link to your GitHub repository]

**Introduction**

The Drug Dataset contains information about various drugs and their attributes. In this report, we will perform an exploratory data analysis to uncover insights and relationships within the dataset. We will utilize descriptive statistics, correlation analysis, and data visualization techniques to gain a better understanding of the data.

**Dataset Description**

The dataset consists of the following columns:

Age: Age of the patient

Sex: Gender of the patient

BP: Blood Pressure levels

Cholesterol: Cholesterol levels

Drug: Name of the drug

**A screenshot of a computer

Description automatically generatedDescriptive Statistics**

Let's start by examining some descriptive statistics of the numerical variables in the dataset:

**Data Visualization**

**A screenshot of a graph

Description automatically generatedHistogram of Age**

The histogram illustrates the distribution of ages among patients in the dataset.

**A screenshot of a graph

Description automatically generatedScatter Plot of Age vs Drug**

**A screenshot of a computer screen

Description automatically generatedA screenshot of a computer program

Description automatically generatedHeatmap of Correlation Matrix**

The heatmap provides a visual representation of the correlation matrix, making it easier to identify strong and weak correlations between variables.

Conclusion

Through descriptive statistics, correlation analysis, and data visualization, we have gained valuable insights into the Drug Dataset. We observed the distribution of age, explored relationships between age and sodium-to-potassium ratio, and analyzed correlations between numerical variables. Further analysis and modeling can be performed based on these findings to extract more insights or build predictive models.

This concludes the exploratory data analysis of the Drug Dataset.