

Analysis of Heart Disease Data

Your Name

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Overview

In this report, we analyze various aspects of heart disease prevalence across different demographics and health metrics. The following plots illustrate our findings:

1 Gender and Heart Disease Distribution

Figure 1 shows the histogram of gender distribution among people diagnosed with heart disease. This allows us to visually compare the number of cases between males and females.

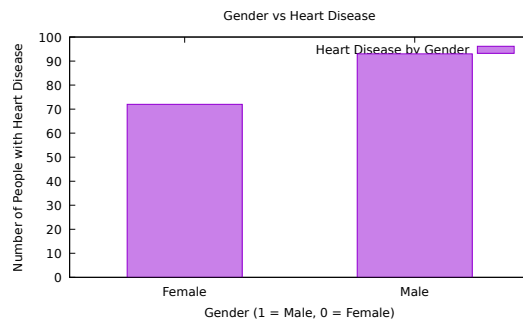


Figure 1: Histogram of Gender vs. Number of People with Heart Disease

2 Correlation of Age with Health Metrics

2.1 Age vs. Blood Pressure

Figure 2 illustrates the correlation between age and blood pressure. Each point represents an individual case, highlighting any patterns that may emerge with aging.

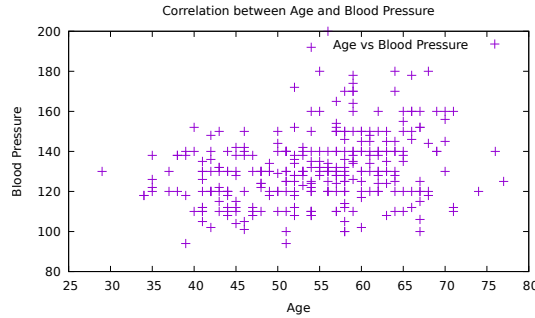


Figure 2: Correlation between Age and Blood Pressure

2.2 Age vs. Cholesterol for People Without Heart Disease

In Figure 3, we analyze the correlation between age and cholesterol levels specifically for individuals without heart disease. The line plot provides insight into cholesterol trends across different age groups.

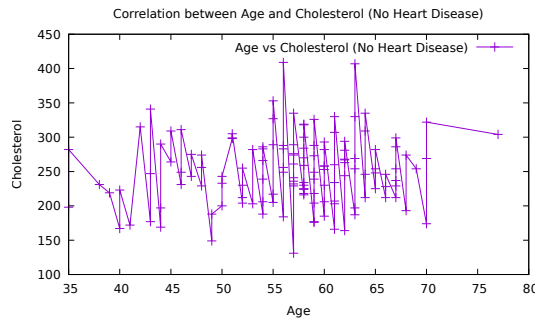


Figure 3: Correlation between Age and Cholesterol (No Heart Disease)

3 Age Group Distribution of Heart Disease Cases

Finally, Figure 4 displays a pie chart representing the percentage of heart disease cases across different age groups, segmented into 10-year intervals from ages 40 to 100.

Conclusion

The data visualizations above provide insights into the distribution and correlation of heart disease cases across gender, age, blood pressure, and cholesterol

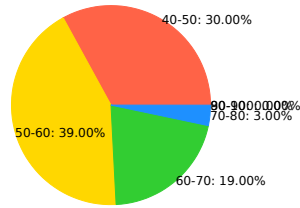


Figure 4: Percentage of Heart Disease Cases by Age Group

levels. Each of these figures offers a unique perspective on the factors associated with heart disease.