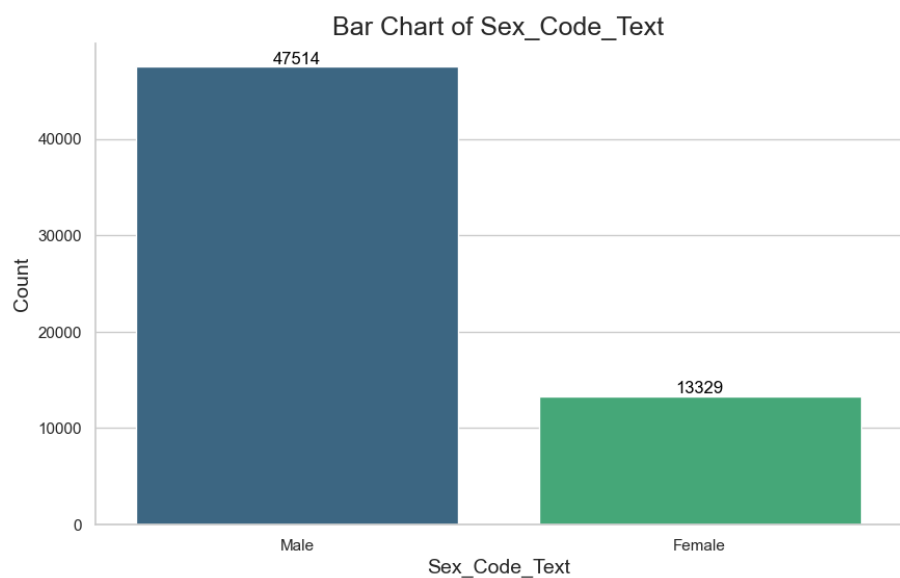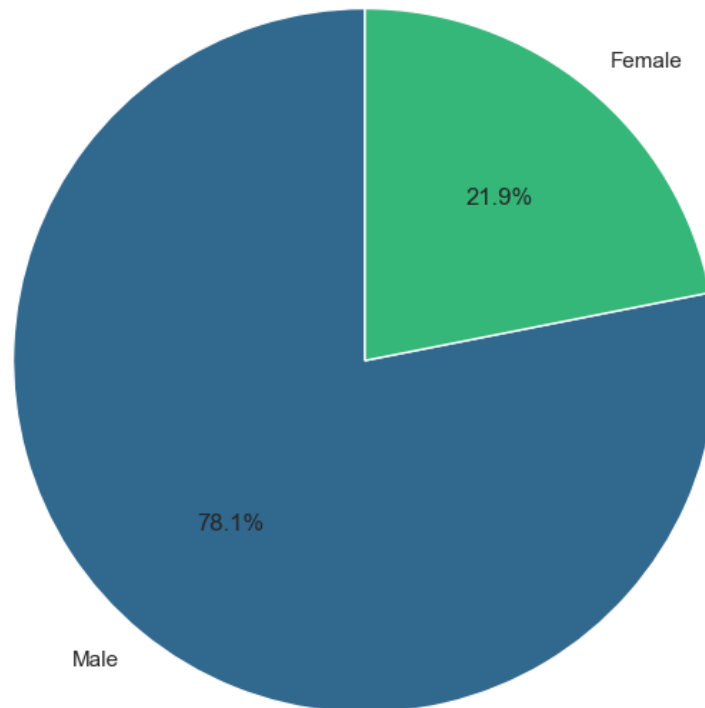# Bias Detection Report

This report analyzes the distribution bias in the 'Sex_Code_Text' feature of the COMPAS dataset. The primary goal was to determine the gender balance, identifying whether there are more males or females.

The bar chart above provides a visual representation of the gender distribution in the dataset.

Pie Chart of Sex_Code_Text

Female

21.9%

78.1%

Male

The pie chart above illustrates the proportions of males and females.

Toolset Analysis:

1. Max/Min Ratio Analysis: Bias Level 3 (Moderate Bias)

2. Entropy Analysis: Bias Level 3 (Moderate Bias)

3. Gini Analysis: Bias Level 3 (Moderate Bias)

4. Relative Risk Analysis: Bias Level 3 (Moderate Bias)

Chi-Square Test Result: No significant deviation from the expected distribution, indicating no extreme bias.

Conclusion:

The analyses indicate a moderate level of bias according to toolset methods. However, the Chi-Square test suggests a balanced distribution, resulting in an overall assessment of Minimal Bias (Level 2).