## **Bias Detection Report**

## **Distribution Bias Analysis Report**

Dataset Analyzed
- **Dataset**: Statlog
- **Feature**: Installment rate in percentage of disposable income
Bias Type
- **Distribution**
Relevant Feature
- Installment rate in percentage of disposable income
Bias Level
- Extreme Bias
Kev Findings

- \*\*Relative Risk Tool\*\*: Normalized Bias Score ~3.5 (Moderate Bias)

- \*\*Max/Min Ratio Analysis\*\*: Max/Min Ratio: Infinite (Extreme Bias)

## **Detailed Explanation**

The analysis reveals a significant imbalance in the distribution of installment rates, with some rates not represented at all, leading to an extreme skewness.

## Recommendations

- Address the imbalance if using the installment rate feature for modeling or decision-making. Consider re-sampling, stratification, or other techniques to mitigate this bias.