Bias Detection Report

Bias Detection Report for Statlog Dataset

The analysis of the Statlog dataset indicates a low level of bias in the relationship between housing circumstances and credit risk classification.

- 1. Bias Type: Correlation
- 2. Relevant Features: 'Housing' and 'Credit risk (Good/Bad)'
- 3. Bias Levels:
 - Cramér's V: Level 2 (Low bias)
 - Statistical Parity: Level 1 (No bias)
 - Total Variation: Level 2 (Low bias)
- 4. Overall Bias Level: Level 2 (Low bias)
- 5. Additional Explanation:
- The Cramér's V analysis indicates a weak association between 'Housing' and 'Credit risk (Good/Bad)', suggesting that housing circumstances have a minor influence on credit risk classification.
- The Statistical Parity analysis shows no significant bias, indicating that the distribution of credit risk is fairly independent of housing categories.
- The Total Variation analysis reveals a slight difference in distribution, suggesting that while there is some variation, it is not substantial.

Conclusion: The analysis suggests that there is a low level of bias in the relationship between housing circumstances and credit risk classification in the dataset. This indicates that housing circumstances do not significantly influence credit risk outcomes.