

# Bias Detection Report

## Bias Detection Report for Marital Status Distribution

1. Bias Type: Distribution

2. Relevant Feature: Marital Status

3. Bias Level: Moderate Bias

- Shannon Balance: 0.653 (Moderate Bias)
- Max-Min Ratio: 651.13 (Significant Imbalance)
- Gini Index: 0.66 (Corrected), 0.77 (Adjusted) (Moderate Inequality)

4. Detailed Explanation:

- Shannon Balance indicates a moderate level of bias with a balance metric of 0.653.
- Max-Min Ratio highlights a significant imbalance with a ratio of 651.13.
- Gini Index values confirm moderate inequality in the distribution.

5. Conclusion: The marital status distribution shows a moderate level of bias. Consider this bias in applications relying on marital status data.