

Bias Detection Report

Bias Detection Report for Dataset: Adult.csv

1. Bias Type: Both 'Correlation' and 'Distribution' biases were detected.
2. Relevant Features: 'occupation' and 'workclass'.
3. Bias Level: Distribution Bias: Level 2 (Moderate bias) based on Shannon Balance and Entropy.
4. Bias Level: Correlation Bias: Level 5 (Extreme bias) based on Statistical Parity and Total Variation.
5. Overall Bias Level: Level 5 (Extreme bias) due to the strong correlation bias detected.
6. Additional Explanation: The distribution analysis revealed a moderate level of bias in the distribution of occupations, indicating that some occupations are more prevalent than others. The correlation analysis showed a strong association between 'occupation' and 'workclass', with significant differences in proportions and distributions, indicating potential bias in how occupations are associated with work classes.