

Bias Detection Report

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Dataset: Adult.csv

Features Analyzed: Race and Occupation

Bias Type: Correlation

Analysis Results:

1. **Cramér's V:** 0.0808

- Interpretation: Very weak association indicating minimal bias.

2. **Elift:** Max Elift value of 11.63

- Interpretation: Strong association indicating potential bias.

3. **Statistical Parity:** Max Z-value of 0.343

- Interpretation: Moderate disparity in proportions, suggesting some bias.

4. ****Chi-Square Test:****

- Chi-square statistic: 850.87
- p-value: 1.61e-142
- Interpretation: Statistically significant correlation between race and occupation.

Conclusion:

The analysis indicates a strong presence of bias between "race" and "occupation," driven primarily by the Elift and Chi-Square test results. This suggests systemic biases in occupation distribution among racial groups.

Recommendations:

Careful consideration should be given to these biases when using this dataset for analyses or modeling. Further investigation into the causes and potential mitigation strategies may be needed.

