Bias Detection Report

Bias Detection Report: Correlation between Race and Income

This report presents the analysis of correlation bias between the 'race' and 'income' features in the dataset. Two methods, Cramér's V and Elift, were employed to assess the correlation.

Findings from Cramér's V Analysis:

- Cramér's V Value: 0.101

- Bias Level: Level 2 (Minimal Bias)

- Interpretation: There is a minimal correlation bias between race and income, indicating a slight disproportionate representation of racial groups in different income levels.

Findings from Elift Analysis:

- Maximum Elift Value: 1.196

- Bias Level: Level 1 (No Bias)

- Interpretation: The Elift analysis suggests no significant correlation bias, meaning racial groups are fairly represented across income levels.

Conclusion:

- Overall, the dataset exhibits minimal bias between race and income. The findings from both methods indicate a slight correlation but not to a degree that would compromise the dataset's usability.

Recommendations:

- While the dataset can be used with confidence, it's advisable to keep the minimal bias in mind during analysis or decision-making processes.

- Further analysis or data collection could be undertaken to ensure comprehensive fairness across all attributes.