Bias Detection Report

Bias Detection Report Dataset Analyzed: Adult Income Dataset Features Examined: Education and Income **Types of Bias Detected: Correlation Bias Tools and Methods Used:** - Max Absolute N Value - Hilbert-Schmidt Independence Criterion (HSIC) 1. Max Absolute N Value Method: - **Result:** Max Absolute N Value was approximately 1.17. - **Bias Level:** Level 5 (Extreme Bias)

- **Interpretation:** This indicates a significant correlation bias between education and income.

2. Hilbert-Schmidt Independence Criterion (HSIC):

- **Result:** HSIC value was approximately 2.01e-12.
- **Bias Level:** Level 1 (No Bias)
- **Interpretation:** This suggests a negligible correlation bias between education and income using HSIC.

Overall Interpretation and Recommendations:

The findings demonstrate significant variance between different methods. Max Absolute N Value indicates an extreme bias, whereas HSIC suggests no bias. It's crucial to consider multiple methods to understand the bias comprehensively and cautiously interpret the results when applying this dataset.