Bias Detection Report
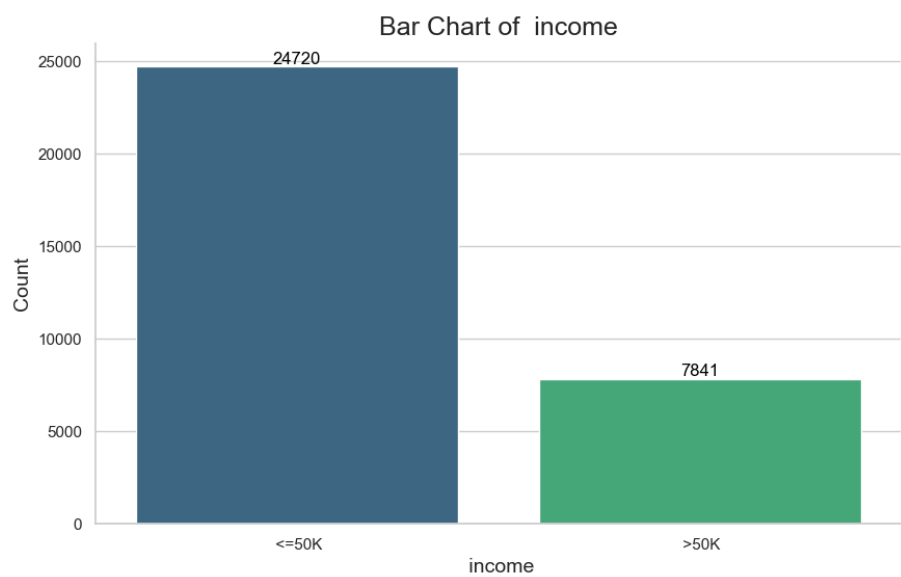
Bias Detection Report: Gender and Income Analysis

1. Bias Type: Correlation

2. Relevant Features: 'sex' (gender) and 'income'

3. Bias Level: Based on the results from the tools used, the bias level is categorized as Level 2 (Minimal Bias).

4. Cramér's V Analysis: The Cramér's V value of 0.2159 indicates a moderate association between 'sex' and 'income', suggesting minimal bias.

5. Statistical Parity Analysis: The maximum Z-value of 0.3072 also indicates minimal bias in the distribution of income across different genders.

6. Visualization: A bar chart visualizing the distribution of income across different genders.

7. Additional Explanation: The analysis indicates a minimal bias in the correlation between gender

and income. The Cramér's V value suggests a moderate association, while the Statistical Parity analysis confirms minimal bias. These results imply that while there is some association between gender and income, it is not substantial enough to indicate a significant pay gap.