

Bias Detection Report

This report analyzes the distribution of the 'native-country' feature in the Adult dataset to detect any notable patterns or biases.

The Shannon Balance analysis indicates a Balance metric of approximately 0.174, suggesting a significant imbalance in the distribution.

The Max-Min Ratio analysis shows a ratio of 29170.0, indicating a substantial disparity between the most and least frequent categories.

The Entropy analysis reveals an Entropy value of approximately 0.944 and a Normalized Entropy of approximately 0.174, indicating low randomness or disorder.

The Gini Index analysis shows a Corrected Gini Index of approximately 0.199 and an Adjusted Gini Index of approximately 0.203, suggesting moderate inequality.

The Relative Risk analysis highlights a significant disparity in the likelihood of different categories, with the United States having a much higher relative risk compared to other countries.

The analysis indicates a Level 5 bias (Extreme Bias) in the distribution of the 'native-country' feature. The feature is dominated by entries from the United States, leading to a lack of diversity and representation from other countries.