

Bias Detection Report

Introduction: This report analyzes the distribution of languages spoken by defendants in the COMPAS dataset to detect any bias.

Analysis Methods: The analysis involved Shannon Balance, Max-Min Ratio, Entropy, and Gini Coefficient to assess the distribution characteristics.

Results: The analysis revealed extreme bias with a Shannon Balance of 0.0387, Max-Min Ratio of 240.44, and Entropy of 0.0387, indicating a highly skewed distribution.

Conclusion: The dataset shows extreme bias in language distribution, suggesting the need for careful consideration and potential adjustment to ensure representativeness.