

Bias Detection Report

Bias Detection Report

Bias Type: Distribution

Relevant Feature(s): Agency_Text

Findings Summary:

- The Shannon Balance metric is approximately 0.49, indicating a significant imbalance in the distribution of assessments across agencies.
- The Max-Min Ratio is approximately 334.15, suggesting a substantial disparity between the most and least frequent categories.
- The Entropy is approximately 0.99, and the Normalized Entropy is approximately 0.49, indicating a relatively low level of randomness and a significant imbalance.
- The Gini Index is approximately 0.45 (Corrected) and 0.59 (Adjusted), indicating a moderate level of inequality in the distribution.

Conclusion:

The analysis reveals a significant imbalance in the distribution of assessments across different

agencies. The presence of a dominant agency performing a majority of the assessments is evident from the high Max-Min Ratio and moderate Gini Index. This suggests that the dataset may not represent an even distribution of assessments across all agencies, which could affect the reliability of any conclusions drawn from this data.

