

Bias Detection Report

Bias Detection Report for 'Property' Feature

Analysis Summary

1. Shannon Entropy and Balance Metric

- Balance Metric: 0.9739

- Interpretation: The balance metric is close to 1, indicating a nearly uniform distribution. This corresponds to Level 1 (No Bias).

2. Max/Min Ratio

- Max/Min Ratio: 2.1558

- Interpretation: The ratio is slightly above 2, which corresponds to Level 2 (Minimal Bias).

3. Jensen-Shannon Divergence

- JSD Value: 0.0093

- Interpretation: A very low JSD value, indicating a distribution very close to uniform, suggesting Level 1 (No Bias).

Overall Bias Level: Level 1 (No Bias)

Detailed Explanation: The analysis using Shannon Entropy, Max/Min Ratio, and Jensen-Shannon Divergence consistently shows metrics pointing to a near-uniform distribution with minimal variations. The 'Property' feature is well balanced with minimal bias.