

Bias Detection Report

Bias Detection Report for 'Job' Feature

1. Chi-Square Test Results:

- Chi-Square Statistic: 386.90
- P-value: 1.52e-83

This suggests significant deviation from uniform distribution, indicating potential bias.

2. Kolmogorov-Smirnov Test Results:

- K-S Statistic: 0.5
- P-value: 0.771

The high p-value suggests that the distribution of the 'Job' feature does not significantly differ from a uniform distribution.

3. Jensen-Shannon Divergence Results:

- Jensen-Shannon Divergence: 0.326

This indicates a moderate difference between the actual distribution of the 'Job' feature and a uniform distribution, suggesting some level of bias.

4. Z-Score Analysis Results:

- Z-Scores for each Job category: [-0.45, 1.66, -1.00, -0.22]

These scores show varying degrees of deviation from the mean across categories, with some indicating potential distribution bias.