

Bias Detection Report

Bias Detection Report for 'workclass' Feature

Bias Type: Distribution

Relevant Feature: workclass

Chi-Square Test Results:

- Chi-Square Statistic: 114809.13
- p-value: 0.0
- Conclusion: Significant deviation from the expected uniform distribution, indicating distribution bias.

Kolmogorov-Smirnov Test Results:

- KS Statistic: 0.8889
- p-value: 0.00074
- Conclusion: Significant deviation from a uniform distribution, suggesting distribution bias.

Jensen-Shannon Divergence Results:

- JSD Value: 0.4843

- Conclusion: Moderate level of bias in the distribution.

Overall Bias Level: Moderate Bias

The analysis indicates that the 'workclass' feature in the dataset exhibits a moderate level of distribution bias, with certain categories being overrepresented.

