

# Bias Detection Report

## Bias Detection Report for 'Workclass' Feature

This report provides a detailed analysis of the distribution bias in the 'workclass' feature of the dataset.

### Bias Type:

Distribution Bias

### Relevant Feature:

Workclass

### Bias Levels:

- Shannon Entropy & Balance Metric: Level 4
- Max/Min Ratio: Level 5
- Gini Index: Level 4
- Relative Risk: Level 5

Detailed Findings:

The 'workclass' feature shows significant imbalance and inequality, as reflected by the balance metric and Gini index. The max/min ratio and relative risk analyses demonstrate extreme overrepresentation of certain work classes, particularly 'Private,' which is highly overrepresented.

