

BiasGuard - AI Fairness Report

Model Overview

This report analyzes bias in the LogisticRegression with respect to sensitive attribute: Gender.

Fairness Metrics

Accuracy: 0.2500
Demographic Parity Diff: 0.0000
Equal Opportunity Diff: 0.0000
Disparate Impact: 1.0000

Selection Rates by Gender

Gender Group	Selection Rate
0	0.50
2	0.50

Interpretation

The model achieved an accuracy of 0.25. However, high accuracy does not imply fairness, as the model may be systematically favoring one group over another.

Disparate Impact is 1.00, which lies within the fairness threshold. This suggests that the model is treating groups more equitably in terms of overall outcomes.

Equal Opportunity Difference is 0.00, which is within the acceptable range. This implies that the model's ability to correctly identify positives is relatively balanced.

Demographic Parity Difference is 0.00. A higher value indicates unequal positive prediction rates between groups, a key sign of potential bias.

Fairness Summary

The highest selection rate among groups is 0.50, while the lowest is 0.50. This results in a gap of 0.00, indicating minor bias in favor of the higher-rated group.

Selection Rates Chart

Selection Rates by Group

