Bias Detection Report

Analysis of Correlation Bias between Language and Supervision Levels in COMPAS Dataset

Bias Type: Correlation

Relevant Features: Language, RecSupervisionLevel

Chi-Square Analysis:

- Chi-Square Statistic: 113.27

- P-value: 2.17e-24

Statistical Parity Analysis:

Marginal Probability Distribution:

- English: [0.63, 0.17, 0.13, 0.07]

- Spanish: [0.95, 0.05, 0.00, 0.00]

J-Divergence:

- Supervision Level 1: -0.337

- Supervision Level 2: 2.627

- Supervision Levels 3 & 4: Infinite

Bias Detected for all levels.

Bias Level: Level 5 (Extreme Bias)

Recommendations: Consider mitigating strategies for the detected bias.