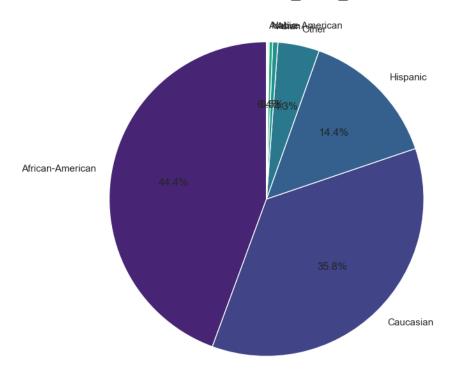
Bias Detection Report

Ethnicity Distribution Bias Report
Dataset Analyzed: COMPAS
Feature Examined: Ethnic_Code_Text
Bias Type Detected: Distribution
Tools and Methods Used:
- Shannon Entropy and Balance Metric
- Max/Min Ratio
- Normalized Entropy
- Gini Index
- Relative Risk
Findings:
1. Shannon Entropy: 1.743
2. Balance Metric: 0.550 (Level 4)
3. Max/Min Ratio: 692.77 (Level 5)
4. Normalized Entropy: 0.550 (Level 4)
5. Corrected Gini Index: 0.652

6. Adjusted Gini Index: 0.734 (Level 3)

7. Relative Risks indicate extreme bias with a normalized bias score of 692.77 (Level 5).

Bar Chart of Ethnic_Code_Text



Conclusion and Recommendations:

The dataset shows significant to extreme bias in the distribution of ethnic groups, with certain groups being overrepresented or underrepresented. Consider re-sampling or collecting additional data to ensure a balanced representation. Exercise caution when using this dataset for analysis.