

Bias Detection Report

Bias Detection Report for 'Race' Feature

1. Shannon Entropy and Balance

- Balance: 0.344 (Level 5)
- Shannon Entropy: 0.799

2. Max/Min Ratio

- Max/Min Ratio: 102.64 (Level 5)

3. Entropy

- Normalized Entropy: 0.344 (Level 5)

4. Gini Index

- Adjusted Gini Index: 0.325 (Level 4)

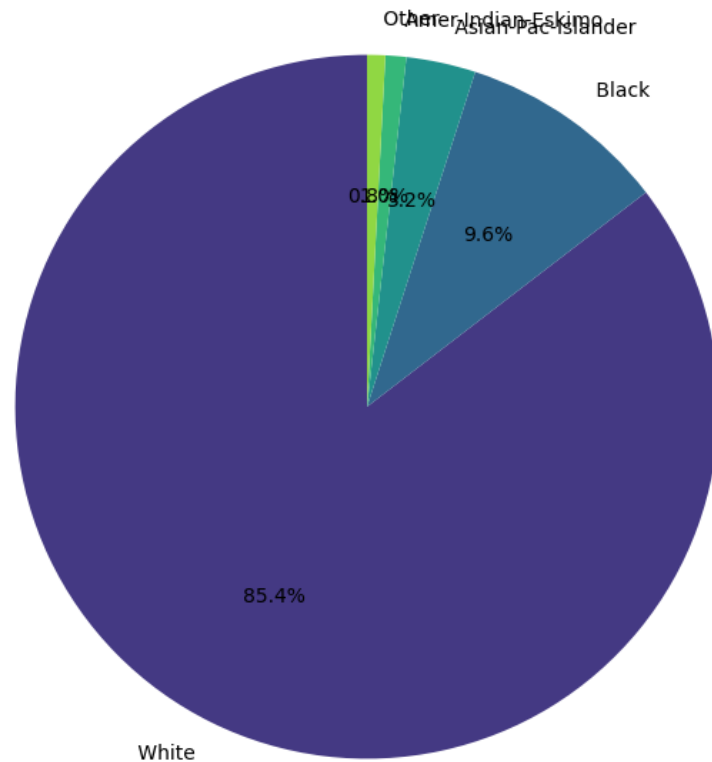
5. Relative Risk

- Normalized Bias Score: 102.64 (Level 5)

6. Kolmogorov-Smirnov Test

- KS Statistic: 0.8
- KS P-Value: 0.079
- Significant Distribution Bias: True

Pie Chart of race



Summary:

The analyses reveal a significant distribution bias in the 'race' feature, with a dominant group (White) showing a high relative risk and max/min ratio. The Shannon Entropy and Balance results, along with the Gini Index and Kolmogorov-Smirnov test, confirm a very uneven distribution and significant bias.