

# Bias Detection Report

## Bias Detection Report

**Dataset Analyzed:** Adult\_cleaned.csv

**Features Examined:** race

**Bias Type Detected:** Distribution

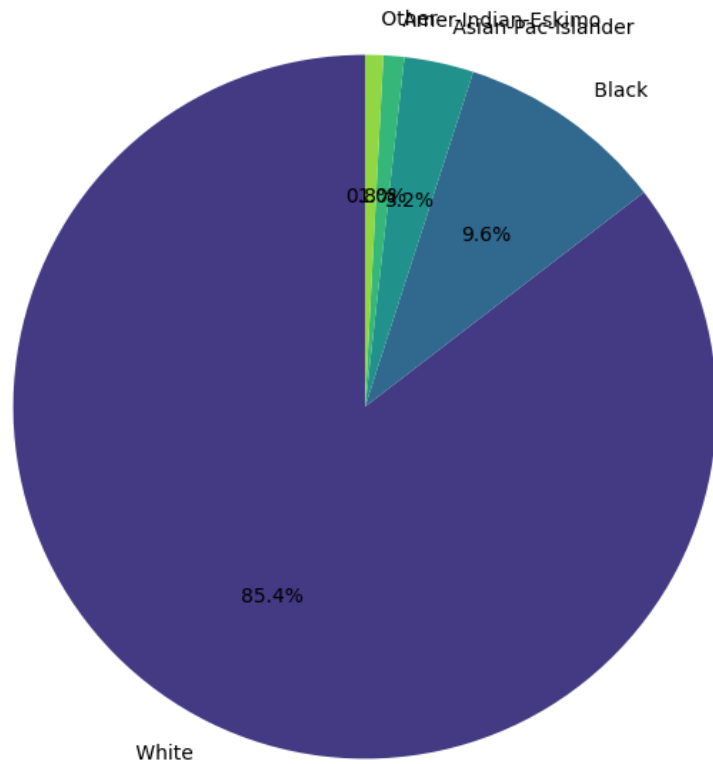
### Analysis Results

- **Balance Metric:** 0.344
- **Shannon Entropy:** 0.799
- **Max/Min Ratio:** 102.642
- **Normalized Entropy:** 0.344
- **Adjusted Gini Index:** 0.325
- **Normalized Bias Score:** 102.642

### Bias Levels:

- Balance, Entropy, and Relative Risk indicate extreme bias.

Pie Chart of race



## Summary

The analysis reveals a very severe bias in the racial distribution, heavily dominated by one group. This imbalance is evident through the metrics and visualizations analyzed.

## Recommendations:

Consider balancing the dataset to mitigate bias effects and enhance fairness in subsequent analyses.