Bias Detection Report

Custody Status Distribution Analysis Report

Bias Type: Distribution
Relevant Feature(s): CustodyStatus
Analysis Summary:
1. **Shannon Entropy and Balance Metric:**
- Shannon Entropy: 1.426
- Balance Metric: 0.552
- Interpretation: Moderate unevenness in the distribution of custody statuses.
2. **Max/Min Ratio:**
- Max/Min Ratio: 2008.6
- Interpretation: Extremely high ratio indicating significant imbalance.
3. **Gini Index:**
- Corrected Gini Index: 0.597
- Adjusted Gini Index: 0.716
- Interpretation: Significant level of inequality in the distribution.
4. **Relative Risk:**

- Normalized Bias Score: 2008.6

- Interpretation: Dominance of 'Jail Inmate' and 'Probation' statuses.
- 5. **Visualizations:**
 - Pie chart created successfully. Bar chart encountered an error.

Conclusion:

- **Bias Level:** Significant Bias (hidden from user)
 - Explanation: Tools such as Max/Min Ratio and Gini Index indicate prominent imbalance.
 - Recommendation: Review the findings, considering the potential impact on analysis.

Pie Chart of CustodyStatus

