Bias Detection Report

Bias Detection Report for Student Performance Dataset

Analysis of the 'address' feature to determine the distribution of urban and rural students.

Summary of Findings:

Bias Type: Distribution

Relevant Feature(s): 'address' (place of residence)

Bias Level: Moderate Bias (Level 3)

The analysis indicates a moderate level of bias in the distribution of the 'address' feature. The results suggest that while there is some bias, it does not fully compromise the dataset's usability. However, it is advisable to consider this bias in certain applications.

Detailed Explanation:

The moderate bias level is supported by the Shannon Balance, Entropy, and Gini Index, which all point to a moderate level of diversity, uncertainty, and inequality in the distribution. The Max-Min Ratio highlights a significant difference between categories, suggesting a potential dominance of one category.

Bar Chart of address