

# Bias Detection Report

## Bias Detection Report on Family Relationship Quality among Students

The distribution of the 'family relationship quality' feature was analyzed to identify potential biases.

Chi-Square Analysis: The Chi-square statistic is 291.999 with a p-value of 5.758680406742204e-62.

This indicates a significant deviation from a uniform distribution, suggesting considerable bias.

Skewness: The skewness value is -0.9519, indicating a left-skewed distribution. Based on the skewness thresholds, this corresponds to a Level 4 bias.

Kurtosis: The kurtosis is 1.1398, suggesting a leptokurtic distribution, indicating a Level 5 bias.

Overall Findings: The analyses indicate significant bias in students' perceptions of family relationship quality. The Chi-square test shows a significant deviation from uniformity, while the skewness and kurtosis analyses reveal non-normal distribution.

