

Bias Detection Report

This is a report introduction.

The bias type in this case is Correlation since we are detecting correlation bias between a categorical feature (school) and a numerical feature (final grade). The relevant feature(s) are school and G3 (final grade).

The bias level for each school is as follows: 'GP': 'Level 1', 'MS': 'Level 1'. This indicates that both schools 'GP' and 'MS' have a bias level of 1, which means there is no significant bias in the final grades between these schools.

To explain the findings based on different bias levels, we can use the following interpretation: Level 1: No bias, Level 2: Slight bias, Level 3: Moderate bias, Level 4: Significant bias, Level 5: Extreme bias. In this case, since both schools have a bias level of 1, we can conclude that there is no significant bias in the final grades between these schools.

Additional explanation: The N-Sigma formula used in this method calculates the difference between each group (school) and the overall mean, and then evaluates this difference based on the overall standard deviation. This allows us to determine the significance of the bias. In this case, the N-Sigma values for both schools are close to 0, indicating no significant bias.

Overall bias level: Based on the results, the overall bias level is Level 1, indicating no significant bias in the final grades between the schools.