

Bias Detection Report

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Dataset Analyzed: Student Performance

Features Examined:

- `reason`: Reason for choosing a school.
- `Medu_cat`: Mother's education level, categorized.

Bias Type: Correlation

Tools Used:

- Cramér's V
- Elift
- Statistical Parity
- Chi-Square Test

Values Obtained and Bias Extent:

- 1. **Cramér's V**: 0.0969
- 2. **Elift**: 1.2824
- 3. **Statistical Parity (Z-score)**: 0.2001
- 4. **Chi-Square Statistic**: 11.0515, p-value: 0.2722

Interpretation of Bias Severity:

- The analysis indicates no significant bias between the features. The metrics analyzed are close to the ideal state.

Recommendations: The dataset is suitable for use without concerns of bias in the examined features.

