

Bias Detection Report

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Bias Type: Correlation

Relevant Features: famsize (categorical), G1 (numerical)

Cohen's d Effect Size: 0.157 (Level 1 - No Bias)

Risk Difference (RD): -0.073 (Minimal Bias)

Z-scores: GT3: -0.045, LE3: 0.112 (Minimal Bias)

Residual Analysis: t-statistic: 1.48e-15, p-value: 1.0 (No Bias)

The analysis shows that the correlation between family size and student performance (G1) is minimal, with no significant bias detected. The dataset appears balanced in terms of the relationship between family size and student performance.