

Bias Detection Report

Dataset analyzed: Student Performance.csv

Features examined: famsize, G1

Types of bias detected: Correlation bias

Tools used: numerical_numerical_correlation_pearson, categorical_numerical_correlation_cohens_d, get_reference_method_by_id, execute_python_code

Values obtained and the extent of the bias: Cohens_d_Effect_Size = 0.15731527474201168, delta_shap = -0.035

Visualizations: SHAP dependence plots for famsize and G1

Natural language interpretation of the bias severity: The feature "famsize" and "G1" in this dataset show a moderate level of bias.

Recommendations for the user regarding the use of the dataset: Consider this bias in certain applications.