Bias Detection Report

The dataset analyzed is the Student Performance dataset.

The features examined are 'romantic' and 'sex'.

The type of bias detected is correlation bias.

The tools used are the Chi-square test and the HSIC method.

The values obtained are a Chi-square statistic of 3.69 and a p-value of 0.0548.

The extent of the bias is significant.

Image not found: generated_files/chi_square_plot.png

Our natural language interpretation of the bias severity is that there is a significant correlation bias between the 'romantic' and 'sex' features.

Our recommendation for the user regarding the use of the dataset is to be aware of the potential correlation bias between the 'romantic' and 'sex' features.