

Bias Detection Report

Based on the results from the tools used, the bias type is Correlation, and the relevant features are 'Other debtors / guarantors', 'Credit history', 'Credit amount', 'Duration in month'.

The results from the tools indicate that there is a correlation bias between the 'Other debtors / guarantors' and 'Credit history' columns, between the 'Other debtors / guarantors' and 'Credit amount' columns, and between the 'Credit amount' and 'Duration in month' columns.

The mutual information between the 'Credit amount' and 'Duration in month' columns is 2.5098293124233506, indicating a strong correlation bias.

The Chi-square statistic between the 'Other debtors / guarantors' and 'Credit history' columns is 15.314876150221936, and the p-value is 0.05330441758456023, indicating a correlation bias.

The t-statistic between the 'Other debtors / guarantors' and 'Credit amount' columns is -2.3770042694249964, and the p-value is 0.017651927927895543, indicating a correlation bias.

The effect size between the 'Other debtors / guarantors' and 'Credit amount' columns is -0.33746540795530716, indicating a moderate correlation bias.

Overall, the results suggest that there is a significant correlation bias between the 'Other debtors / guarantors' and 'Credit history' columns, between the 'Other debtors / guarantors' and 'Credit amount' columns, and between the 'Credit amount' and 'Duration in month' columns.

I recommend that the user carefully evaluate the results and consider the potential implications of the correlation bias on their analysis or decision-making process.

Additionally, I recommend that the user consider using techniques such as data preprocessing, feature selection, or regularization to mitigate the effects of the correlation bias.