

# Bias Detection Report

Based on the results from the tools, we can see that there is a significant correlation between the marital status and sex of an individual in the COMPAS dataset. The Chi-square test reveals a p-value of  $6.204712010017959e-54$ , which is extremely low and indicates a strong correlation between the two variables.

Additionally, the t-test shows a significant difference in the raw scores between married and unmarried individuals, with a p-value of  $2.563634721821491e-21$ . This suggests that there may be a bias in the scoring system, with married individuals potentially receiving different scores than unmarried individuals.