

# Bias Detection Report

The dataset analyzed is the COMPAS dataset, which contains information about criminal defendants in Florida.

The features examined are the numerical features in the dataset, including 'Person\_ID', 'AssessmentID', 'Case\_ID', 'ScaleSet\_ID', 'Scale\_ID', 'RawScore', 'DecileScore'.

The type of bias detected is distribution bias, which refers to the difference in the distribution of a feature between different groups.

The tools used to detect and analyze the bias include the max/min ratio method.

The values obtained from the max/min ratio method indicate that some features have a high max/min ratio, suggesting significant bias.

The extent of the bias varies across features, with some features showing extreme bias and others showing minimal bias.

The results from the tools used suggest that the dataset may contain significant bias, which could impact the accuracy of models trained on this data.

Therefore, it is essential to consider these results when using this dataset for modeling or analysis purposes.

Additionally, it is crucial to explore methods to mitigate the bias, such as data preprocessing or feature engineering, to ensure that the models are fair and unbiased.

Overall, the detection and analysis of bias in the COMPAS dataset highlight the importance of considering bias in dataset analysis and the need for careful evaluation of the results.