

# Bias Detection Report

The dataset analyzed is MIMIC-IV.csv. The features examined are patient\_age, patient\_gender, and patient\_marital. The type of bias detected is Distribution bias for patient\_age and Correlation bias between patient\_gender and patient\_marital. The tools used are calculate\_max\_min\_ratio and categorical\_categorical\_correlation\_cramers\_v. The values obtained are max/min ratio = 2.53 for patient\_age and Cramers\_V = 0.2198 for patient\_gender and patient\_marital. The extent of the bias is Minimal Bias for patient\_age and Moderate association for patient\_gender and patient\_marital. The visualizations are not included in this report. The natural language interpretation of the bias severity is that the dataset shows Minimal Bias for patient\_age and Moderate association for patient\_gender and patient\_marital. The recommendations for the user regarding the use of the dataset are to proceed with using this dataset, but with minimal attention needed in specific scenarios.