

Bias Detection Report

This report summarizes the results of the bias detection task for the MIMIC-IV dataset.

Image not found: generated_files/chi_square_test_result.png

The Chi-Square test for distribution bias in the categorical feature 'patient_gender' shows a Chi-Square value of 1.007400555041628 and a p-value of 0.3155263919366886, indicating no significant distribution bias.

Image not found: generated_files/pearson_chi_square_test_result.png

The Pearson Chi-square test for correlation bias between the categorical features 'admission_type' and 'discharge_location' shows a Chi-Square value of 63.120139100321516 and a p-value of 0.7070612888665667, indicating no significant correlation bias.

Image not found: generated_files/independent_samples_t_test_result.png

The independent samples t-test for correlation bias between the categorical feature 'patient_gender' and the numerical feature 'patient_age' shows a t-statistic of -3.076827370690058 and a p-value of 0.002144894124927611, indicating significant correlation bias. The Cohen's d value is -0.1878425548839903, indicating a small to medium effect size.