Bias Detection Report

Age Distribution Bias Analysis Report

The objective of this analysis was to determine if the age distribution in the MIMIC-IV dataset is evenly spread or skewed toward certain age groups.

Analysis Methods:

1. Max/Min Ratio Analysis

2. Skewness Analysis

3. Kurtosis Analysis

Results:

- Max/Min Ratio: 2.89 (Indicating Minimal Bias)

- Skewness: -0.19 (Indicating a nearly symmetrical distribution)

- Kurtosis: -0.84 (Indicating lighter tails than a normal distribution)

Conclusion: The age distribution in the dataset shows minimal bias, with a nearly symmetrical distribution and lighter tails, suggesting a relatively even spread across age groups.