

# Bias Detection Report

## Bias Detection Report: Analyzing the Correlation Between Age Groups and Decile Scores

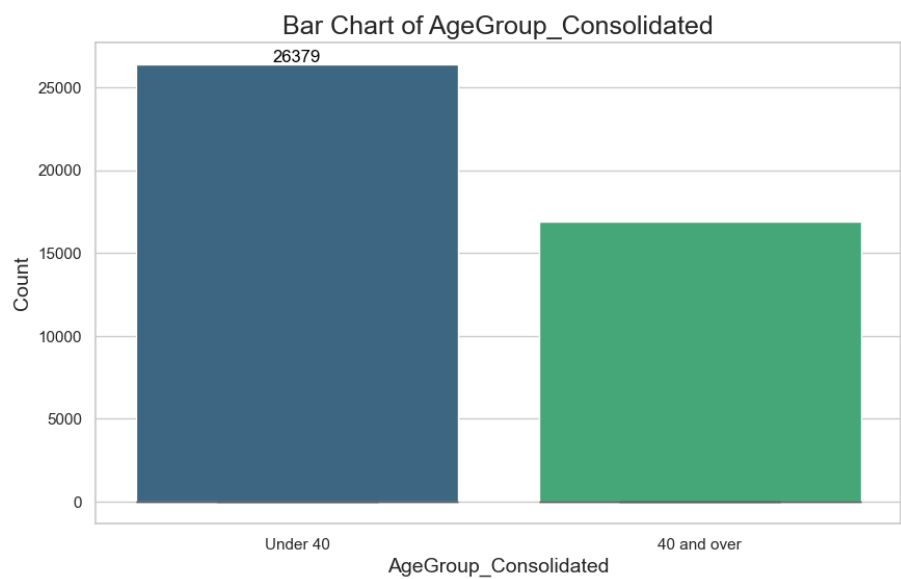
1. Introduction: This report investigates the correlation bias between age groups, derived from birth dates, and decile scores in the dataset. We aim to determine if certain age groups receive higher decile scores.

2. Methodology: The analysis was performed using two methods:

- Cohen's d to measure the effect size between two consolidated age groups.
- Standardized Difference to quantify bias across multiple age groups.

3. Results:

- Cohen's d Effect Size: 0.362, indicating moderate bias.
- Standardized Difference for the first category: 0.355, suggesting some bias.



4. Conclusion: Both statistical methods indicate a moderate level of bias in decile scores across age

groups. The visual representation through the box plot provides additional insights into the distribution.