

# The Bias Report

Audit Date: 03 May 2025

Data Audited: 309 rows

Attributes Median Income, White Population, Asian Population, Median Age, Black or African American Audited: Population

Audit Goal(s): **False Negative Rate Parity** - Ensure all protected groups have the same false negative rates (as the reference group).

Reference Groups: Custom group - The reference groups you selected for each attribute will be used to calculate relative disparities in this audit.

Fairness Threshold: 80%. If disparity for a group is within 80% and 125% of the value of the reference group on a group metric (e.g. False Positive Rate), this audit will pass.

## Audit Results:

1. Summary
2. Details by Fairness Measures
3. Details by Protected Attributes
4. Bias Metrics Values
5. Base Metrics Calculated for Each Group

## Audit Results: Summary

**False Negative Rate Parity** - Ensure all protected groups have the same false negative rates (as the reference group). Failed [Details](#)

## Audit Results: Details by Fairness Measures

### False Negative Rate Parity: Failed

What is it?	When does it matter?	Which groups failed the audit:
This criteria considers an attribute to have False Negative parity if every group has the same False Negative Error Rate. For example, if race has false negative parity, it implies that all three races have the same False Negative Error Rate.	If your desired outcome is to make false negative errors equally on people from all races, then you care about this criteria. This is important in cases where your intervention is assistive (providing helpful social services for example) and missing an individual could lead to adverse outcomes for them. Using this criteria allows you to make sure that you're not missing people from certain groups disproportionately.	<b>For Median Income</b> (with reference group as 75391.00-205987.00) <b>57712.00-75391.00</b> with <b>2.67X</b> Disparity <b>12269.00-40179.00</b> with <b>1.37X</b> Disparity <b>40179.00-57712.00</b> with <b>2.31X</b> Disparity <b>For White Population</b> (with reference group as 1222.00-2123.00) <b>0.00-1222.00</b> with <b>0.55X</b> Disparity <b>3351.00-7541.00</b> with <b>0.00X</b> Disparity <b>2123.00-3351.00</b> with <b>0.38X</b> Disparity <b>For Asian Population</b> (with reference group as 31.00-122.00) <b>6.00-31.00</b> with <b>0.71X</b> Disparity <b>0.00-6.00</b> with <b>0.43X</b> Disparity <b>122.00-1321.00</b> with <b>0.39X</b> Disparity <b>For Median Age</b> (with reference group as 46.90-58.00) <b>41.60-46.90</b> with <b>5.33X</b> Disparity <b>5.90-35.70</b> with <b>8.42X</b> Disparity <b>35.70-41.60</b> with <b>3.00X</b> Disparity <b>For Black or African American Population</b> (with reference group as 58.00-201.00) <b>64.00-2750.00</b> with <b>0.47X</b> Disparity <b>201.00-642.00</b> with <b>0.55X</b> Disparity <b>642.00-2750.00</b> with <b>0.47X</b> Disparity

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## Audit Results: Details by Protected Attributes

### Median Income

Attribute Value	False Negative Rate Parity
12269.00-40179.00	12269.00-40179.00
40179.00-57712.00	40179.00-57712.00
57712.00-75391.00	57712.00-75391.00
75391.00-205987.00	Ref

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### White Population

Attribute Value	False Negative Rate Parity
0.00-1222.00	0.00-1222.00
1222.00-2123.00	Ref
2123.00-3351.00	2123.00-3351.00
3351.00-7541.00	3351.00-7541.00

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### Asian Population

Attribute Value	False Negative Rate Parity
0.00-6.00	0.00-6.00
122.00-1321.00	122.00-1321.00
31.00-122.00	Ref
6.00-31.00	6.00-31.00

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### Median Age

Attribute Value	False Negative Rate Parity
35.70-41.60	35.70-41.60
41.60-46.90	41.60-46.90
46.90-58.00	Ref
5.90-35.70	5.90-35.70

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### Black or African American Population

Attribute Value	False Negative Rate Parity
0.00-58.00	0.00-58.00
201.00-642.00	201.00-642.00
58.00-201.00	Ref
642.00-2750.00	642.00-2750.00

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## Audit Results: Bias Metrics Values

### Median Income

Attribute Value	Group Size Ratio	False Negative Rate
12269.00-40179.00	0.25	0.23
40179.00-57712.00	0.25	0.38
57712.00-75391.00	0.25	0.44
75391.00-205987.00	0.25	0.17

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### White Population

Attribute Value	Group Size Ratio	False Negative Rate
0.00-1222.00	0.25	0.24
1222.00-2123.00	0.25	0.44
2123.00-3351.00	0.25	0.17
3351.00-7541.00	0.25	0.33

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### Asian Population

Attribute Value	Group Size Ratio	False Negative Rate
0.00-6.00	0.27	0.2
122.00-1321.00	0.25	0.18
31.00-122.00	0.25	0.47
6.00-31.00	0.24	0.71

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### Median Age

Attribute Value	Group Size Ratio	False Negative Rate
35.70-41.60	0.25	0.19
41.60-46.90	0.25	0.33
46.90-58.00	0.25	0.06
5.90-35.70	0.25	0.53

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### Black or African American Population

Attribute Value	Group Size Ratio	False Negative Rate
0.00-58.00	0.25	0.38
201.00-642.00	0.25	0.25
58.00-201.00	0.25	0.45
642.00-2750.00	0.25	0.21

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