

# The Bias Report

<b>Audit Date:</b>	03 May 2025
<b>Data Audited:</b>	309 rows
<b>Attributes Audited:</b>	Median Income, White Population, Asian Population, Median Age, Black or African American Population
<b>Audit Goal(s):</b>	<a href="#">False Negative Rate Parity</a> - Ensure all protected groups have the same false negative rates (as the reference group).
<b>Reference Groups:</b>	Custom group - The reference groups you selected for each attribute will be used to calculate relative disparities in this audit.
<b>Fairness Threshold:</b>	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:

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2. [Details by Fairness Measures](#)
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## 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 <b>75391.00-205987.00</b> ) <a href="#">40179.00-57712.00</a> with <b>10.00X</b> Disparity <a href="#">57712.00-75391.00</a> with <b>10.00X</b> Disparity <a href="#">12269.00-40179.00</a> with <b>10.00X</b> Disparity  <b>For White Population</b> (with reference group as <b>1222.00-2123.00</b> ) <a href="#">2123.00-3351.00</a> with <b>3.00X</b> Disparity <a href="#">3351.00-7541.00</a> with <b>0.00X</b> Disparity <a href="#">0.00-1222.00</a> with <b>0.49X</b> Disparity  <b>For Asian Population</b> (with reference group as <b>31.00-122.00</b> ) <a href="#">6.00-31.00</a> with <b>2.50X</b> Disparity <a href="#">122.00-1321.00</a> with <b>0.00X</b> Disparity <a href="#">0.00-6.00</a> with <b>0.00X</b> Disparity  <b>For Median Age</b> (with reference group as <b>46.90-58.00</b> ) <a href="#">41.60-46.90</a> with <b>10.00X</b> Disparity <a href="#">5.90-35.70</a> with <b>10.00X</b> Disparity  <b>For Black or African American Population</b> (with reference group as <b>58.00-201.00</b> ) <a href="#">642.00-2750.00</a> with <b>10.00X</b> Disparity <a href="#">0.00-58.00</a> with <b>10.00X</b> Disparity

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## Audit Results: Details by Protected Attributes

### Median Income

Attribute Value	False Negative Rate Parity
<a href="#">12269.00-40179.00</a>	<a href="#">12269.00-40179.00</a>
<a href="#">40179.00-57712.00</a>	<a href="#">40179.00-57712.00</a>
<a href="#">57712.00-75391.00</a>	<a href="#">57712.00-75391.00</a>
<a href="#">75391.00-205987.00</a>	Ref

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### White Population

Attribute Value	False Negative Rate Parity
<a href="#">0.00-1222.00</a>	<a href="#">0.00-1222.00</a>
<a href="#">1222.00-2123.00</a>	Ref
<a href="#">2123.00-3351.00</a>	<a href="#">2123.00-3351.00</a>
<a href="#">3351.00-7541.00</a>	<a href="#">3351.00-7541.00</a>

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### Asian Population

Attribute Value	False Negative Rate Parity
<a href="#">0.00-6.00</a>	<a href="#">0.00-6.00</a>
<a href="#">122.00-1321.00</a>	<a href="#">122.00-1321.00</a>
<a href="#">31.00-122.00</a>	Ref
<a href="#">6.00-31.00</a>	<a href="#">6.00-31.00</a>

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### Median Age

Attribute Value	False Negative Rate Parity
<a href="#">35.70-41.60</a>	<a href="#">35.70-41.60</a>
<a href="#">41.60-46.90</a>	<a href="#">41.60-46.90</a>
<a href="#">46.90-58.00</a>	Ref
<a href="#">5.90-35.70</a>	<a href="#">5.90-35.70</a>

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### Black or African American Population

Attribute Value	False Negative Rate Parity
<a href="#">0.00-58.00</a>	<a href="#">0.00-58.00</a>
<a href="#">201.00-642.00</a>	<a href="#">201.00-642.00</a>
<a href="#">58.00-201.00</a>	Ref
<a href="#">642.00-2750.00</a>	<a href="#">642.00-2750.00</a>

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## Audit Results: Bias Metrics Values

### Median Income

Attribute Value	False Negative Rate Disparity
<a href="#">12269.00-40179.00</a>	<b>10.0</b>
<a href="#">40179.00-57712.00</a>	<b>10.0</b>
<a href="#">57712.00-75391.00</a>	<b>10.0</b>
<a href="#">75391.00-205987.00</a>	Undefined

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### White Population

Attribute Value	False Negative Rate Disparity
<a href="#">0.00-1222.00</a>	<b>0.49</b>
<a href="#">1222.00-2123.00</a>	1.0
<a href="#">2123.00-3351.00</a>	<b>3.0</b>
<a href="#">3351.00-7541.00</a>	<b>0.0</b>

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### Asian Population

Attribute Value	False Negative Rate Disparity
<a href="#">0.00-6.00</a>	<b>0.0</b>
<a href="#">122.00-1321.00</a>	<b>0.0</b>
<a href="#">31.00-122.00</a>	1.0
<a href="#">6.00-31.00</a>	<b>2.5</b>

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### Median Age

Attribute Value	False Negative Rate Disparity
<a href="#">35.70-41.60</a>	Undefined
<a href="#">41.60-46.90</a>	<b>10.0</b>
<a href="#">46.90-58.00</a>	Undefined
<a href="#">5.90-35.70</a>	<b>10.0</b>

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### Black or African American Population

Attribute Value	False Negative Rate Disparity
<a href="#">0.00-58.00</a>	<b>10.0</b>
<a href="#">201.00-642.00</a>	Undefined
<a href="#">58.00-201.00</a>	Undefined
<a href="#">642.00-2750.00</a>	<b>10.0</b>

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## Audit Results: Group Metrics Values

### Median Income

Attribute Value	Group Size Ratio	False Negative Rate
<a href="#">12269.00-40179.00</a>	0.25	<b>0.03</b>
<a href="#">40179.00-57712.00</a>	0.25	<b>0.08</b>
<a href="#">57712.00-75391.00</a>	0.25	<b>0.11</b>
<a href="#">75391.00-205987.00</a>	0.25	0.0

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### White Population

Attribute Value	Group Size Ratio	False Negative Rate
<a href="#">0.00-1222.00</a>	0.25	<b>0.03</b>
<a href="#">1222.00-2123.00</a>	0.25	0.06
<a href="#">2123.00-3351.00</a>	0.25	<b>0.17</b>
<a href="#">3351.00-7541.00</a>	0.25	<b>0.0</b>

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### Asian Population

Attribute Value	Group Size Ratio	False Negative Rate
<a href="#">0.00-6.00</a>	0.27	<b>0.0</b>
<a href="#">122.00-1321.00</a>	0.25	<b>0.0</b>
<a href="#">31.00-122.00</a>	0.25	0.07
<a href="#">6.00-31.00</a>	0.24	<b>0.17</b>

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### Median Age

Attribute Value	Group Size Ratio	False Negative Rate
<a href="#">35.70-41.60</a>	0.25	0.0
<a href="#">41.60-46.90</a>	0.25	<b>0.08</b>
<a href="#">46.90-58.00</a>	0.25	0.0
<a href="#">5.90-35.70</a>	0.25	<b>0.11</b>

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### Black or African American Population

Attribute Value	Group Size Ratio	False Negative Rate
<a href="#">0.00-58.00</a>	0.25	<b>0.12</b>
<a href="#">201.00-642.00</a>	0.25	0.0
<a href="#">58.00-201.00</a>	0.25	0.0
<a href="#">642.00-2750.00</a>	0.25	<b>0.07</b>

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