

The Bias Report

Audit Date:	03 May 2025
Data Audited:	310 rows
Attributes Audited:	Median Income, White Population, Asian Population, Median Age, Black or African American 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:

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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.	For Median Income (with reference group as 55732.00-73331.75) 73331.75-177824.00 with 2.80X Disparity 13353.00-37488.50 with 0.23X Disparity For White Population (with reference group as 0.00-1372.50) 1372.50-2305.50 with 3.08X Disparity 2305.50-3498.00 with 10.09X Disparity 3498.00-7541.00 with 10.96X Disparity For Asian Population (with reference group as 112.00-1469.00) 0.00-1.50 with 0.52X Disparity 1.50-27.50 with 0.62X Disparity For Median Age (with reference group as 19.30-35.90) 46.30-56.30 with 0.37X Disparity For Black or African American Population (with reference group as 0.00-55.00) 580.25-2468.00 with 0.11X Disparity 187.50-580.25 with 0.76X Disparity

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Audit Results: Details by Protected Attributes

Median Income

Attribute Value	False Negative Rate Parity
13353.00-37488.50	13353.00-37488.50
37488.50-55732.00	37488.50-55732.00
55732.00-73331.75	Ref
73331.75-177824.00	73331.75-177824.00

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White Population

Attribute Value	False Negative Rate Parity
0.00-1372.50	Ref
1372.50-2305.50	1372.50-2305.50
2305.50-3498.00	2305.50-3498.00
3498.00-7541.00	3498.00-7541.00

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Asian Population

Attribute Value	False Negative Rate Parity
0.00-1.50	0.00-1.50
1.50-27.50	1.50-27.50
112.00-1469.00	Ref
27.50-112.00	27.50-112.00

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Median Age

Attribute Value	False Negative Rate Parity
19.30-35.90	Ref
35.90-41.90	35.90-41.90
41.90-46.30	41.90-46.30
46.30-56.30	46.30-56.30

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Black or African American Population

Attribute Value	False Negative Rate Parity
0.00-55.00	Ref
187.50-580.25	187.50-580.25
55.00-187.50	55.00-187.50
580.25-2468.00	580.25-2468.00

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Audit Results: Bias Metrics Values

Median Income

Attribute Value	False Negative Rate Disparity
13353.00-37488.50	0.23
37488.50-55732.00	0.98
55732.00-73331.75	1.0
73331.75-177824.00	2.8

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White Population

Attribute Value	False Negative Rate Disparity
0.00-1372.50	1.0
1372.50-2305.50	3.08
2305.50-3498.00	10.09
3498.00-7541.00	10.96

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Asian Population

Attribute Value	False Negative Rate Disparity
0.00-1.50	0.52
1.50-27.50	0.62
112.00-1469.00	1.0
27.50-112.00	0.94

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Median Age

Attribute Value	False Negative Rate Disparity
19.30-35.90	1.0
35.90-41.90	1.2
41.90-46.30	0.98
46.30-56.30	0.37

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Black or African American Population

Attribute Value	False Negative Rate Disparity
0.00-55.00	1.0
187.50-580.25	0.76
55.00-187.50	0.97
580.25-2468.00	0.11

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Audit Results: Group Metrics Values

Median Income

Attribute Value	Group Size Ratio	False Negative Rate
13353.00-37488.50	0.25	0.08
37488.50-55732.00	0.25	0.35
55732.00-73331.75	0.25	0.36
73331.75-177824.00	0.25	1.0

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White Population

Attribute Value	Group Size Ratio	False Negative Rate
0.00-1372.50	0.25	0.08
1372.50-2305.50	0.25	0.25
2305.50-3498.00	0.25	0.82
3498.00-7541.00	0.25	0.89

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Asian Population

Attribute Value	Group Size Ratio	False Negative Rate
0.00-1.50	0.25	0.23
1.50-27.50	0.25	0.27
112.00-1469.00	0.25	0.44
27.50-112.00	0.25	0.41

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Median Age

Attribute Value	Group Size Ratio	False Negative Rate
19.30-35.90	0.25	0.36
35.90-41.90	0.25	0.43
41.90-46.30	0.25	0.36
46.30-56.30	0.25	0.14

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Black or African American Population

Attribute Value	Group Size Ratio	False Negative Rate
0.00-55.00	0.25	0.56
187.50-580.25	0.25	0.43
55.00-187.50	0.25	0.55
580.25-2468.00	0.25	0.06

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