Category

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# AI Bias Detection, Mitigation & Fairness Playbook

Testing for bias across the groups that actually matter, not just overall accuracy

- Practitioner
- Advanced
- Template Included

- Administrator
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- 3 minute(s)

Overview

A framework for AI bias detection, mitigation, and fairness — disaggregated testing across relevant demographic and use-case groups, understanding different fairness definitions and their trade-offs, and building ongoing bias monitoring rather than treating fairness as a one-time pre-deployment check.

If an AI model shows strong overall accuracy, is that sufficient

evidence it's not biased? No — overall accuracy can mask significantly worse performance for specific demographic or use-case groups, which is exactly why disaggregated testing across relevant groups, not just aggregate accuracy, is essential for genuine bias detection.

Why do different fairness definitions matter, rather than there

being one clear standard for "fair" AI? Different mathematical fairness definitions (equal accuracy across groups, equal false-positive rates, equal outcome rates) can actually conflict with each other in certain situations, meaning organizations need to make deliberate, informed choices about which fairness definition matters most for their specific application, rather than assuming a single universal standard exists.

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