



The  
**ML  
Fairness**  
Project

[Home](#)

[About](#)

[Vanguard Projects](#)

**[Resources](#)**

[Presentations](#)

[Reports](#)

[Community](#)

[FAQ](#)

[Archive](#)

[GET INVOLVED](#)

# Resources

## [Algorithmic unfairness definition](#)

The definition articulates the range of algorithmic unfairness that can occur in products, and establishes a shared understanding and language for internal efforts related to this issue.

## [Metrics and Measurements for Fairness](#)

Google strives for algorithmic fairness across products. This document starts to outline the nitty-gritty of how we can measure and bolster optimally equal experiences for users—at the level of the math, algorithms, and code.

## [ML Fairness Communication Best Practices](#)

Describing best practices for communicating on topics related to the inclusion, fairness, and transparency of machine learning algorithms; guidance for creating, reviewing, and sharing documents related to ML Fairness; and when and how to maintain attorney-client privilege.

## [Comms/PR Best Practices for Speaking and Posting about ML Fairness](#)

Planning to present or write about ML Fairness? As an AI-first company, Google aims to develop the benefits of machine learning for everyone. Building inclusive algorithms, datasets, and products is crucial to this mission. The PR/Comms team provides guidance on how to best deliver your message.

## [Model Understanding](#)

Whether seeking to improve performance of ML systems, combat problems with ML fairness, conduct research into model behavior, or deploy ML in products in a non-trivial way, gaining better understanding of models can be extremely valuable. While there is no one-size-fits-all approach and many open areas of research, there are also many useful tools that exist today.

## [Fairness Tools](#)

A growing list of available tools to help train, interpret, visualize, and debug models in service of fairness.



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### Glassbox

The Glassbox group has developed ML algorithms to help ensure fairness.

### Equality of Opportunity in Machine Learning

At the heart of the approach is the idea that individuals who qualify for a desirable outcome should have an equal chance of being correctly classified for this outcome.

### ML Test Certified

Based on years of prior experience using ML at Google, in systems such as ad click prediction and the Sibyl ML platform, the TFX team have developed a set of best practices for using machine learning systems. They present these practices as a set of actionable tests, and offer a scoring system to measure how ready for production a given machine learning system is.

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