



The
**ML
Fairness**
Project

Home

About

Vanguard Projects

Resources

Presentations

Reports

Community

FAQ

Archive

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Vanguard Projects

These projects have committed to making fairness a P1, going above and beyond to ensure Google's products work for everyone.

Infrastructure

Scorecard

Establish proactive-oriented best-practices and the formal process framework to support fair and inclusive ML development; lowering risk, opening up opportunities for market growth, and making remediation easier, should unfairness arise.

Project POC: [Andrew Zaldivar](#)

Infrastructure

Fairness Policy

Establish the company-wide normative and value-based positions necessary for teams to pursue fairness work. These company-wide policies will be complimentary to the Scorecard, and include positions on risk identification, sensitive subgroups, and incident response.

Project POC: [Jakara Mato](#)

Infrastructure

Subgroup Discovery

Demographic subgroupings using self-identified seed data, for model analysis that protects access to unique users. Discovery of demographic subgroups in data that have not been annotated.

Project POC: [M. Mitchell](#)

Production

Meeting Room Intelligence

Ensure a successful launch of an inclusive video conferencing product in the fall 2017, including auto-zoom functionality and image quality that performs well across subgroups.

Project POC: [Zachary Yorke](#)

Production

Display Ads Quality Signals

Correct or mitigate unfair inferences used in Display Ads targeting.

Project POCs: [Marzia Polito](#) and [Jen Iofinova](#)

Production

YouTube Restricted Mode

Ameliorate unnecessary filtering of LGBTQ content in Restricted Mode and expand work to other YouTube classifiers.

Project POC: [Tulsee Doshi](#)

Production

FaceNet

False Negative Rate (FNR) for non-white faces comparable to white faces.

Project POC: [Florian Schrott](#)

Production

YouTube recommendations

Improving recommendation models to better serve underserved demographics (females and users 35+).

Project POC: [Tulsee Doshi](#)

Production



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Conversation-AI

Mitigating false positives for non-toxic comments that contain language related to protected classes.

Project POC: [Camille Francois](#)

Production

FaceSDK and Human Sensing Attributes

Accuracy of face/person understanding components used in VSS, Mobile Vision, Cloud Vision APIs with regard to demographic variables (race, age, gender).

Project POC: [Marco Andretto](#)

Infrastructure

Bias analytics tools for use in vision model development process

Demographic classifiers for model analysis, diverse datasets for all widely used visual human understanding components.

Project POC: [Hartwig Adam](#)

Production

Links

MomentQuality score unaffected by gender or race.

Project POC: [Divya Tyam](#)

Production

Image Search results

Mitigate result sets that are unrepresentative or offensive in the way they manifest societal stereotypes and/or historical unfairness.

Project POC: [Cathy Edwards](#)

Production

Smart Reply

Mitigate unwanted and unwarranted subgroup inferences in suggested replies.

Project POC: [Sushant Prakash](#)

Infrastructure

Data labeling pipeline

Measuring and Reporting Data Diversity for Machine Learning.

Project POC: [Anurag Batra](#)

What qualifies as a Vanguard Project?

A focused and strategic fairness effort with a dedicated project point-person. We are committed to supporting these teams in every way possible, including gaining support from senior leadership, tracking and publicizing progress, and building out a case study to share processes, findings, outcomes, and recommendations.

Vanguard Projects fall into the following three categories:

Production: Increasing fairness for a specific measureable facet of a product.

Research: Surfacing actionable and measurable fairness opportunities for one or more products.

Infrastructure: Providing reusable and scalable fairness componentry for one or more products.

Ready to be on the fairness vanguard?

If you'd like to discuss a project that you or your team are embarking on, have a proposal you'd like to discuss, or have an interest in getting involved as a contributor, please contact us at ml-fairness-leads@.



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