
Community Literacy of Machine Learning: Engineering practical support for participatory design and auditing

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Abstract

ORES is cool. People do fun stuff around it. Thinking about transparency in terms of crowd literacy is interesting. We see evidence of crowd literacy growing around ORES. Crowd literacy allows groups of people to exert power over governing algorithms.

Author Keywords

Algorithm; Fairness; Transparency; Wikipedia; Collaboration; Participatory design; Auditing

ACM Classification Keywords

G.4 [MATHEMATICAL SOFTWARE]: Algorithm design and analysis; H.4.2 [Types of Systems]: Decision support (e.g., MIS); H.5.3 [Group and Organization Interfaces]: Collaborative computing

Introduction

I am a paper

Literacy of social algorithms

It's hard.

CSCW and group knowledges

Communities of practice! Distributed cognition! There are ways that groups *think*.^[1]

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ORES: Participatory machine learning probe

ORES is a system. It's pretty transparent. We deployed it in Wikipedia. People are doing some very CSCWy things around it and showing deep literacy.

Discussion

We should think of ML literacy differently. Collaborative/participatory processes allow for natural, social processes to support literacy. We should build a proper auditing system to support

this stuff. Power struggles are real. This isn't the holy grail. But it surfaces some cool stuff.

REFERENCES

1. Kate Crawford. 2016. Can an algorithm be agonistic? Ten scenes from life in calculated publics. *Science, Technology, & Human Values* 41, 1 (2016), 77–92.