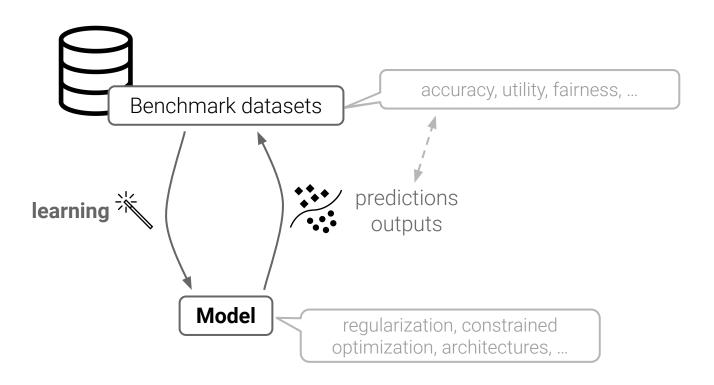
ML-research (+ fairness)



Real challenges in socio-algorithmic systems

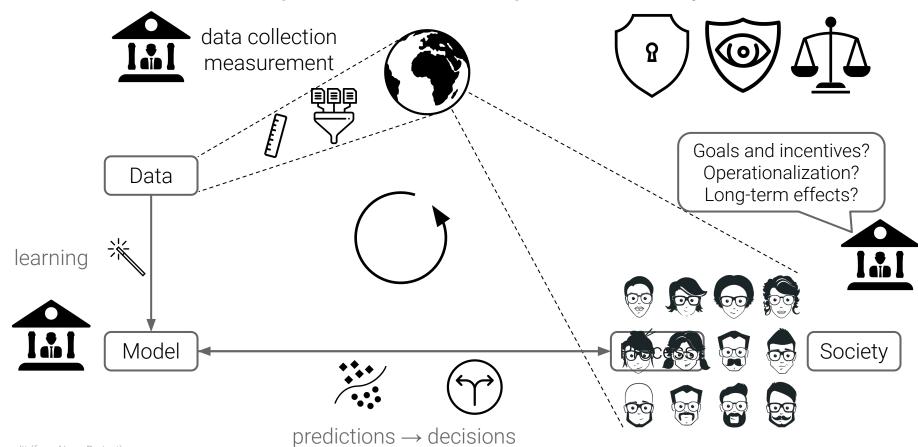
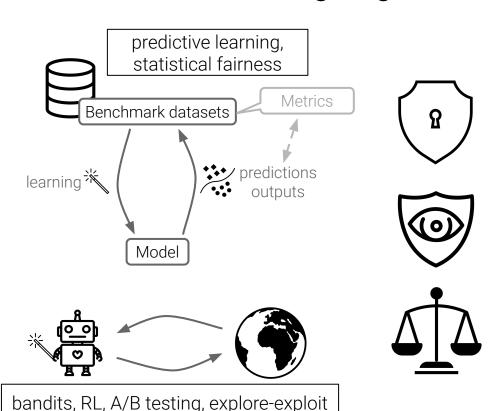
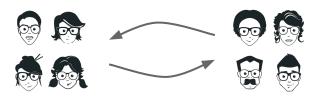


Image credit (from Noun Project): Ralf Schmitzer, Srinivas Agra, Tinashe Mugayi, Arif Prasetyo, IconPai, Redder Design, Chenyu Wang

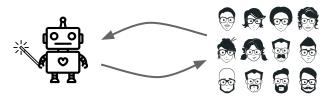
[Barocas, Hardt, Narayanan: Fairness and Machine Learning; Kearns & Roth: The ethical algorithm]

Putting together the pieces

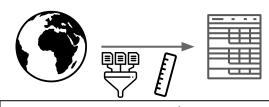




sociology, behavioral economics, game theory, microeconomics



explainable AI, HCI, strategic behavior, mechanisms + auctions



measurement theory, epidemiology, experiment design

Image credit (from Noun Project): Ralf Schmitzer, Srinivas Agra, Tinashe Mugayi, Arif Prasetyo, IconPai, Redder Design, Chenyu Wang

- Plea for cross-disciplinary work.
- Many moving, interacting parts with high uncertainty.
 [Good news for researchers, bad news for practitioners?]
- Suffer from lack of "low-stakes playgrounds" to test ideas. [I don't believe in realistic simulations of socio-algorithmic systems.]