Logistics: Project

- Project presentation (next week in lectures)
  - Everyone is expected to attend both lectures
  - 10 minutes for presentation + 1~2 minutes for QA and transition

Dec 7	Charles, Riwen, Dhruva
	Yangchen, Helen, Tee
	Vishesh, Jake, Isabelle, Robert
	Max, Nurzhan, Bradley, Sam
	Aditya, Connor, Calvin
	Pratyay, Katherine, Julia
Dec 9	Bill, Chengcheng, Becky, Dian
	Ethan W., Alexander, Henry, Ryan L.
	Tushar, Ethan A., Alex E.
	Ryan M., Daniel, Ivan, Jennifer
	Will, Tatsuro, Saumik
	Xiaohan (Rocky), Ziyan (Jenny), Nicholas, Alex S.

Logistics: Project

- Project reports
  - Due: Dec 12 (no late submissions)
  - Up to 6 pages (plus unlimited number of pages for only references/citations)
  - No strict format requirements
    - You are encouraged to use standard templates, such as AAAI format or NeurIPS format
  - For research projects
    - Your report should be structured in a way similar to the research papers we have read throughout the semester. (e.g., include introduction, related work, research problem or formulation, your proposed approach, results, conclusions).
  - For literature surveys
    - Do not summarize papers one by one.
      Find a theme, categorize papers, and put them in context.
    - Example: Making Better Use of the Crowd: How Crowdsourcing Can Advance Machine Learning Research. Vaughan. JMLR 2018.

Assignment 4

- Due tomorrow
  - Check your late-day usages if you plan to use them
- Check the list of talks on Piazza

Peer Review

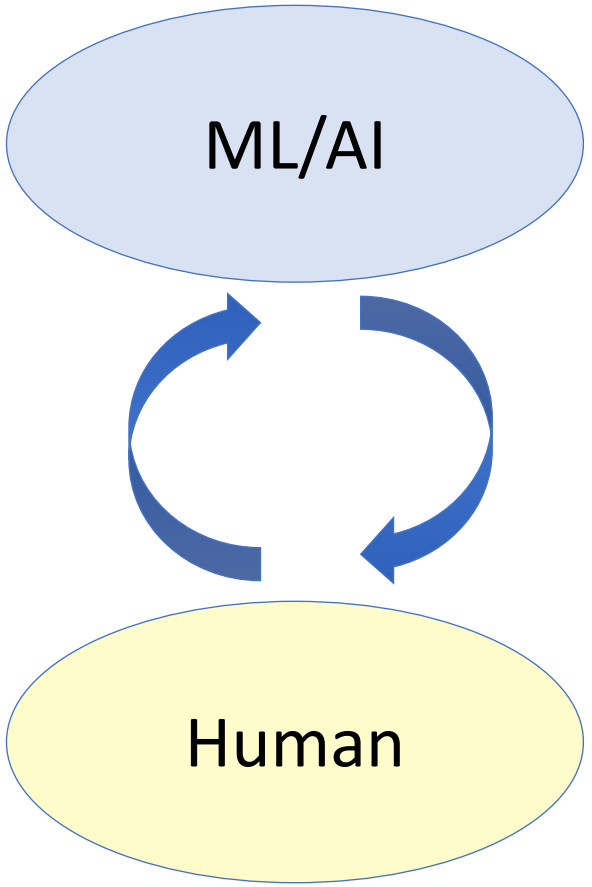
- Please submit the peer review by 6pm

Lecture 23
AI-Assisted Decision Making

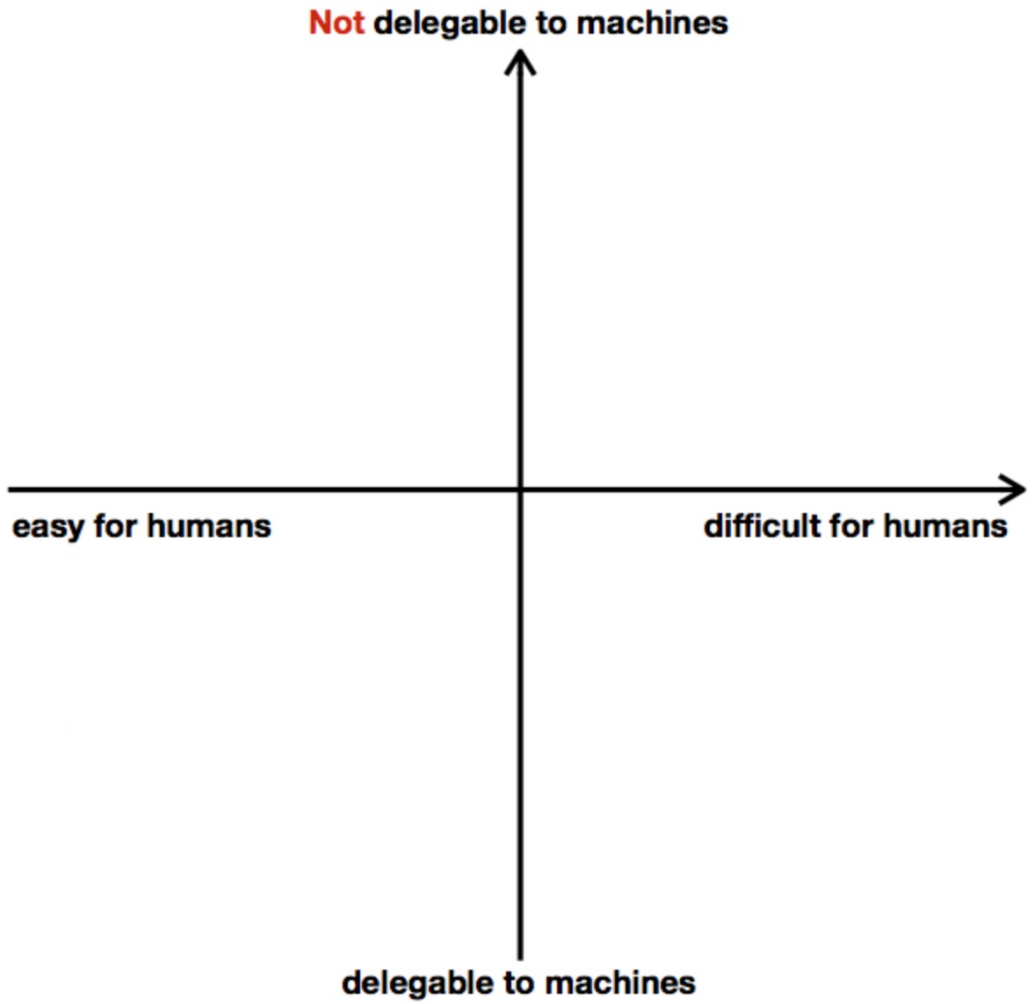
Instructor: Chien-Ju (CJ) Ho

Interactions between Human and AI

- How AI learns from humans
  - Label aggregation
  - Incentive design
  - Biases input
- How AI impacts humans
  - Fairness
  - Transparency / Explainability
  - Strategic manipulation

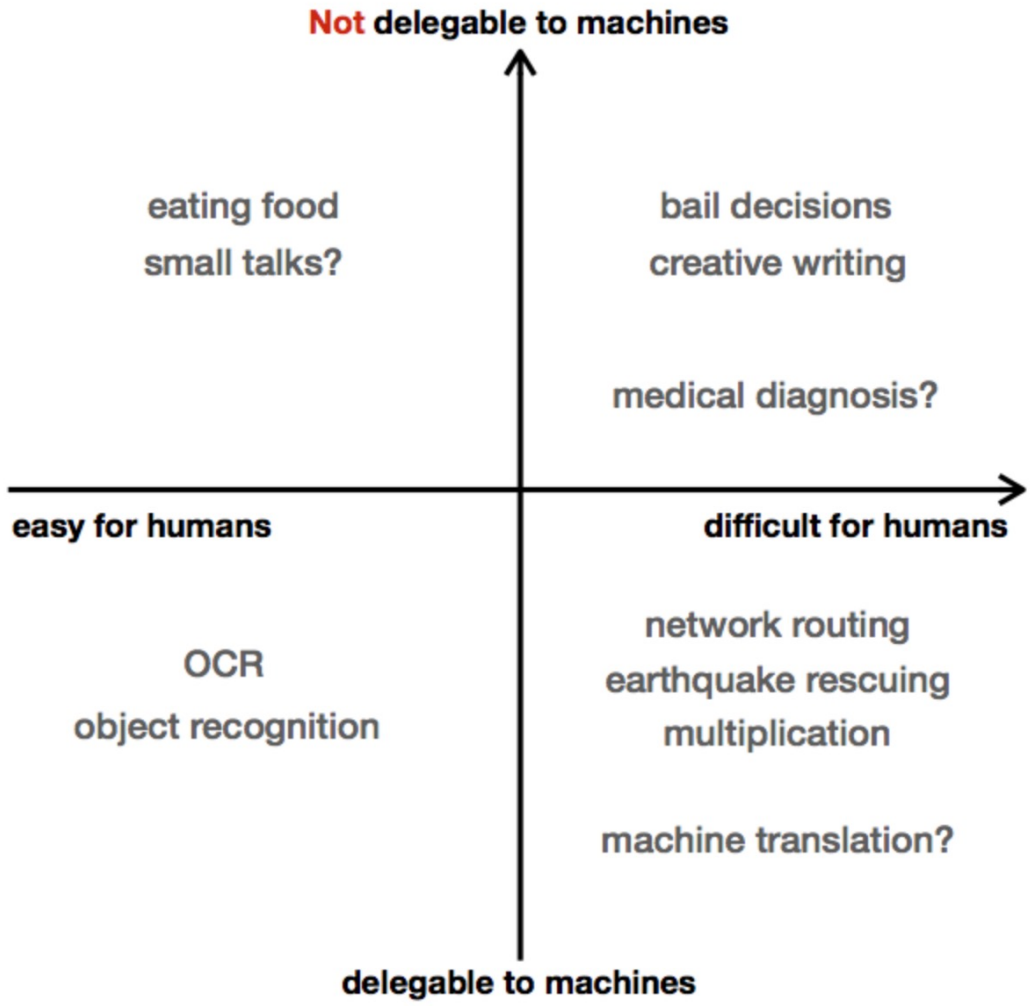


What Can AI Do => What Should AI do



https://medium.com/@ChenhaoTan/human-centered-machine-learning-a-machine-in-the-loop-approach-ed024db34fe7

What Can AI Do => What Should AI do



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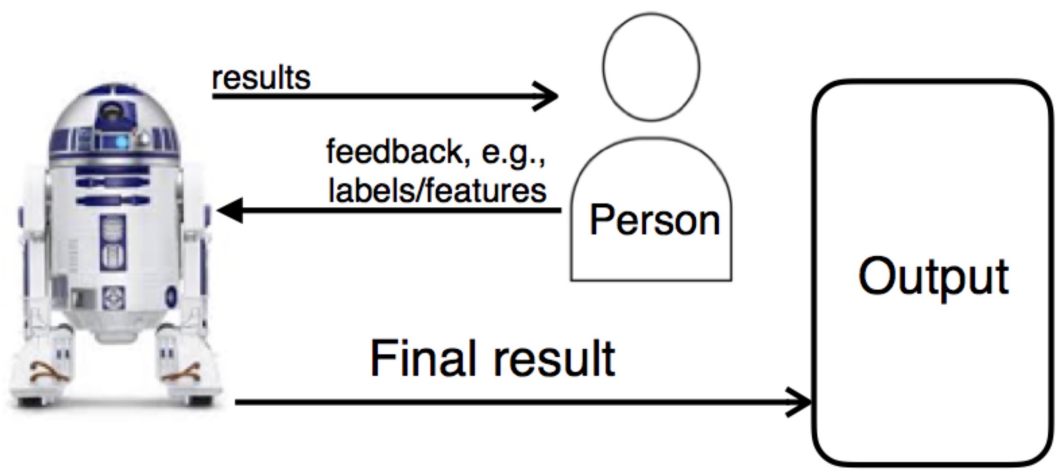
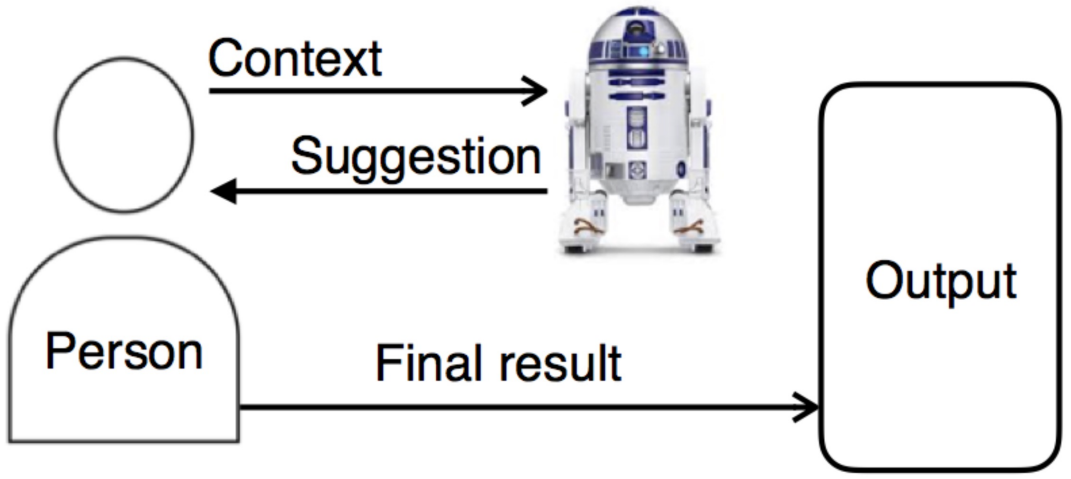
Human-Centered Machine Learning

- From Human-in-the-Loop to Machine-in-the-Loop





https://medium.com/@ChenhaoTan/human-centered-machine-learning-a-machine-in-the-loop-approach-ed024db34fe7

Human-Centered Machine Learning

- From Human-in-the-Loop to Machine-in-the-Loop

- Human-in-the-loop
  - Modeling human behavior in computation
  - Design AI/ML that account for human behavior

- Machine-in-the-loop
  - Model how humans model AI (this lecture)
  - Design AI/ML that account for humans' mental models (next lecture)

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