

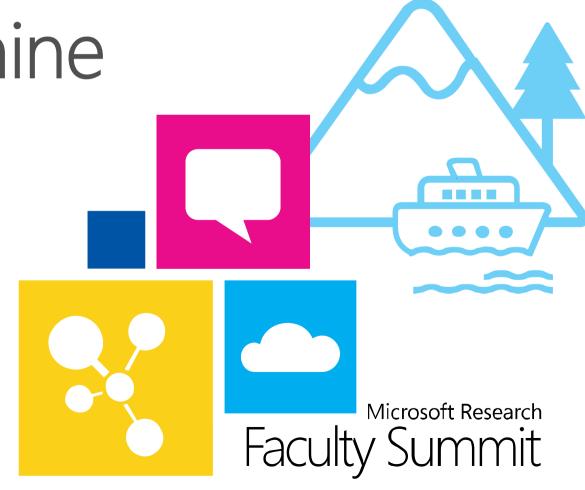


Microsoft Research Faculty Summit 2013



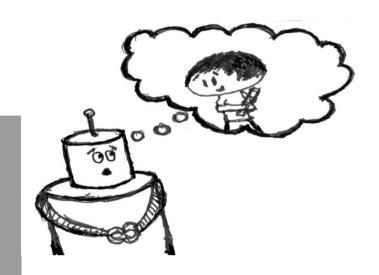
Interaction for Machine Learning

Co-organizers: Dan Bohus, Ece Kamar, Ashish Kapoor, Lihong Li, Jason Williams



Who's Helping Who?

- Human Helping the Machine
 - Providing labels, preferences and guidance



Machine Helping the Human

Amplifying human capabilities, direct information acquisition





What is "Interaction for Machine Learning"?

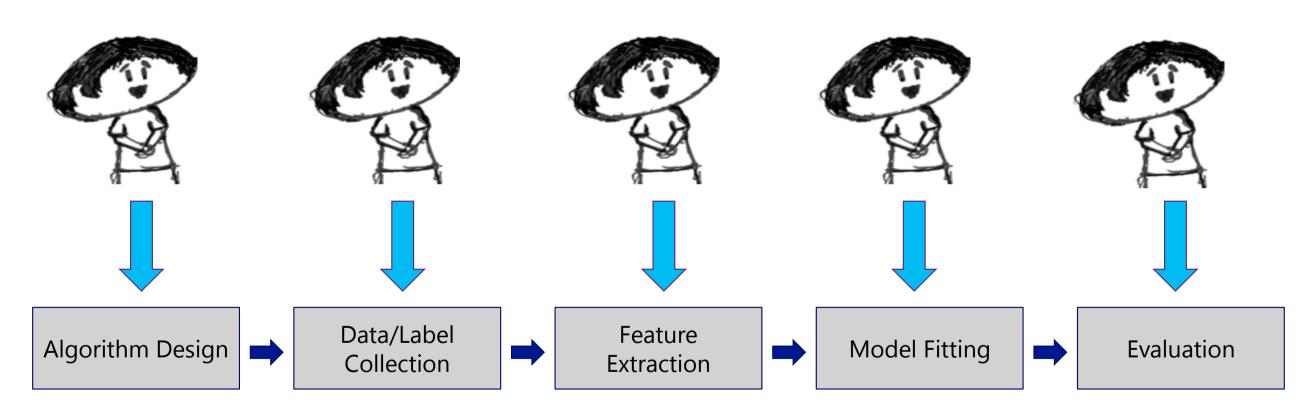
Modify behavior of a machine learning method by interacting with it.

Beyond Label Elicitation:

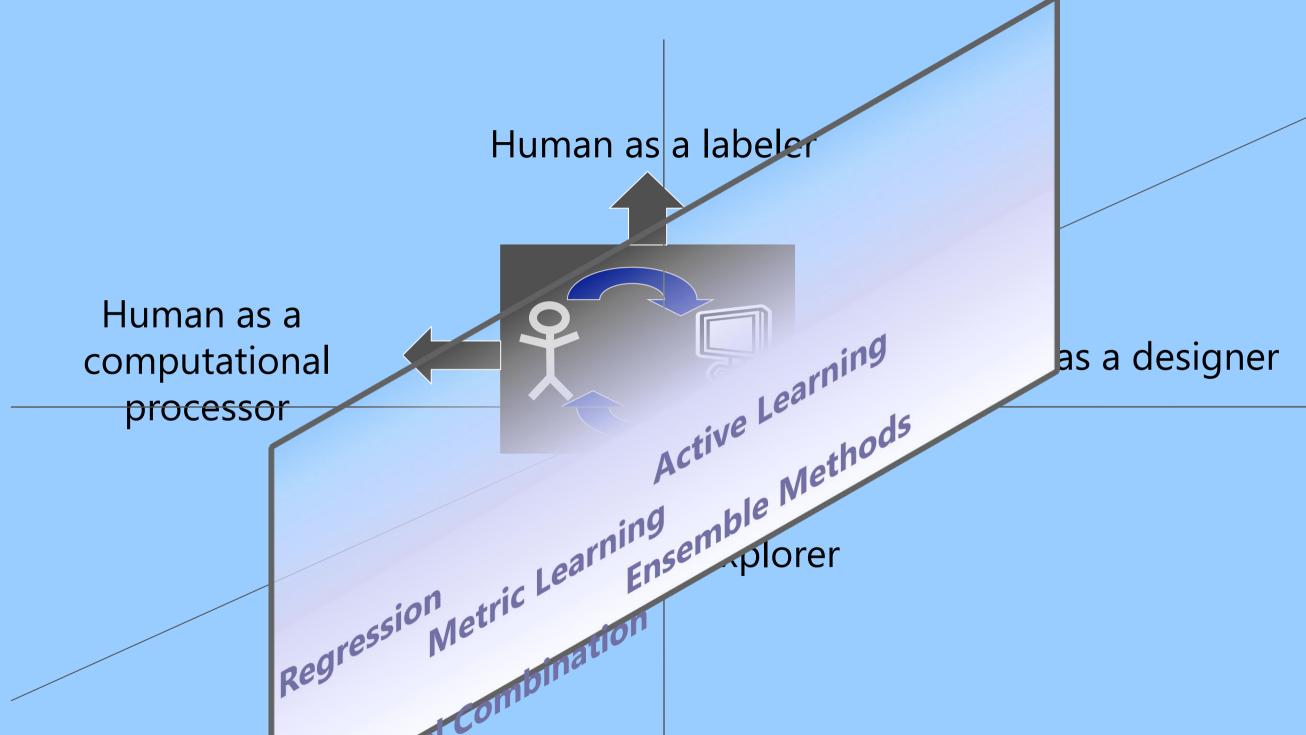
Automated Spam Filter vs. A Personal Assistant



What is "Interaction for Machine Learning"?







Our Speakers



James Fogarty, University of Washington



Patrice Simard, Microsoft Research



Lise Getoor, University of Maryland



Xiaojin (Jerry) Zhu, University of Wisconsin-Madison



Agenda

Short talks by our speakers, followed by discussion and question/answer session:

- 1. Jerry Zhu
- 2. Lise Getoor
- 3. James Fogarty
- 4. Patrice Simard

Goal is to be more discussion oriented, so please ask questions



Interaction and ML Panels

Panel 1: Interaction for Machine Learning

James Fogarty, University of Washington; Lise Getoor, University of Maryland; Patrice Simard, Microsoft Research; and Jerry Zhu, University of Wisconsin, Madison

1:00 pm to 2:30 pm, Cascade (*This Session*).

Panel 2: Machine Learning for Interactive Systems

Dan Bohus, Microsoft Research; Léon Bottou, Microsoft Research, Michael Littman, Brown University; and David Traum, University of Southern California

2:45 pm to 4:15 pm, Cascade

