Intro to Machine Learning for Health

CRTP Fall Term

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Course Objectives

You might not be building models, but you'll use them. You should know:

- What they can and can't do (capabilities, limitations)
- 2. When and how much to trust their predictions (evaluation)
- 3. What's inside the black box (interpretation, understanding)

Equip you to:

- (a) build your own models (if you wish)
- (b) design and manage data science research and/or QA/QI projects
- (c) collaborate and communicate effectively with data scientists
- (d) add rigor to model development and validation



Introductions!

your name

- + your current role or area
- + how you feel about the effects DS/ML/AI will have on health (excited, worried, both, something else)

Course Overview

We will learn about state-of-the-art machine learning techniques that have changed or will change clinical practice.

- How are these techniques different from what has come before?
- How are they the same?
- What do you need to know to use them effectively and responsibly?

I know that most of you are NOT going to be data scientists.

But you will work with data scientists, and you will have to make decisions about what models to use and how to use them. It is important to know enough to get in the weeds with the data scientists, because if applied/evaluated incorrectly, these models are certain to be unhelpful and likely to be harmful.

Course Logistics

Let's take a look at the course site

 Questions & discussion about course requirements, materials, or activities

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