Homework 0

Main objective

The goal of this assignment is to encourage you to study various topics in machine learning independently. For this homework, you will need to prepare a 5 minute presentations describing one of the following:

- A machine learning algorithm of your choice. This can be any algorithm you would like to learn more about including the ones we already discussed or will discuss in class. Example: any clustering or classification algorithm.

- An area of machine learning we will probably not cover in class. Please include the basic problem formulation and a high-level overview of existing solutions. Example: reinforcement learning.

- A machine learning paper of your choice published in a major conference.

- An interesting application of machine learning.

- A newsworthy item related to machine learning.

- A topic related to philosophy of artifical intelligence. For a brief introduction, see the Wikipedia article: https://en.wikipedia.org/wiki/Philosophy_of_artificial_intelligence

- Anything else related to machine learning.

At the end of your presentation we will allocate a couple of minutes for questions and discussion.

Logistics

Please add your name to the presentation signup sheet as soon as possible:

https://docs.google.com/spreadsheets/d/1d5pQJRKn9N1hSKgHvMvmCD7W_ogHSeiRQjhKB5NOnp0/edit?usp=sharing

We can have at most two presenter per class, so signing up early will give you more options.

Resources

For inspiration, feel free to study the following resources:

- https://www.reddit.com/r/MachineLearning/
- http://aiweekly.co
- http://arxiv-sanity.com
- https://arxiv.org/list/cs.AI/recent

- https://arxiv.org/list/cs.CL/recent
- https://techcrunch.com/tag/machine-learning/
- https://www.google.com

If you find any other interesting resources, please feel free to share them on Slack!

Good luck!