

Introduction to PAC Learning

Reading Questions for Monday, March 21, 2016

We ask you to submit comments on the following book chapter by midnight Sunday March 20:

- Chapter 1 in An Introduction to Computational Learning Theory. M. J. Kearns and U. Vazirani.

Your comments should include both answers to the specific reading questions and generic response about the papers. You are welcome to include any questions you have about the papers in your comments. After submitting your own comments, you'll be able to see others' submitted comments. You can comment on others' submissions and answer raised questions on Canvas. Discussion on Canvas is strongly encouraged.

1 Reading Questions

1. Pick a machine learning problem of your choice (e.g. linear classification, regression) and think about the problem in the PAC model. Discuss what the *instance space* and concept class are and how error is defined for your problem.
2. What does it mean to say a concept class is efficiently PAC learnable? What do you think are the pros and cons of the PAC learnability framework?

2 Generic Response

Respond to the papers following the guidelines in the course syllabus (under "Submit Comments and Presenting Papers").