COMP 551-001
Applied Machine Learning

Instructor: Sarath Chandar

Instructor

Sarath Chandar

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MILA

Teaching Assistants

Koustuv Sinha

Philip Amortila

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We will get more TAs!

Course Details

Website: http://sarathchandar.in/teaching/2018/winter/comp551-001/

Schedule: http://sarathchandar.in/teaching/2018/winter/comp551-001/schedule.html

Schedule will be updated regularly! So it is always tentative!

What is this course about?

This is an introductory course in Machine Learning which covers fundamental topics in supervised learning and unsupervised learning.

Course Structure

Theory

- 2 lectures per week.
- Optional reading (sometimes compulsory).
- 1 written exam (towards the end of the semester).
- No end semester exam.

Practice

- 4 tutorial sessions in total.
- 3 programming assignments.
- 1 Kaggle competition.
- 1 reproducibility challenge project.

Grading Info

- Written Exam - 35%
- 3 programming assignments - 30%
- Kaggle competition - 15%
- Reproducibility Challenge - 20%

Programming Assignments

- 3 programming assignments.
- Submission instructions will be released with the assignments.
- Late work will be subject to a 30% penalty, and can be submitted up to 1 week after the deadline.
- You can use any programming language but support, tips, and tutorials will be based on Python.

Code of Conduct

- Zero tolerance for plagiarism and cheating!
- Each assignment/project/competition comes with rules and you MUST follow them.

Prerequisites

- Knowledge of a programming language (Matlab, R are ok; Python is best.)
- Knowledge of probabilities/statistics (e.g. MATH-323, ECSE-305).
- Knowledge of calculus and linear algebra.
- Some AI background is recommended (e.g. COMP-424, ECSE-526) but not required.

Parallel Section

- There is a parallel section for this course.
- Assignments and Exams will be same.
- Order of lectures would be slightly different.

Course Feedback

- You can submit your feedback about the course at any point of time.
- Check myCourses for a link to the Google form.
- Feel free to give both positive and negative feedback about every lecture!

Discussions

- We will use reddit for class discussions.
- Check myCourses for link to the subreddit for the class.
- You can post your questions lecture-wise.
- Please do not create a new link or a post. Use the posts assigned for corresponding lecture.