CS 329P : Practical Machine Learning (2021 Fall)

0. Logistics

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https://c.d2l.ai/stanford-cs329p

Goals

- Apply machine learning techniques in industrial applications

  - Data: collect, mine and process data, deal with dataset shift

  - Model training: model selection, model tuning, transfer learning, distillation, multimodality

  - Model deployment: efficiency, serving, fairness

- Practice: Write code in Python / Jupyter

- Project: Start original practical ML research in a team

Contacts

- Lecturers
  - Qingqing Huang, Mu Li and Alex Smola
- TA

- Course discussion

Homework

- 4 assignments

  - Due in 10/6, 10/20, 11/3, and 11/12

  - Will be posted 2 weeks before the deadline

  - Solutions may be based on students' submissions (we will acknowledge the writer)

- You can be late by 2 days once for any reason

- 50/50 mix of programming and theory

- Team works (TODO)

Exam

- Midterm exam only

  - 10/27

  - Open book but not open computer/phone/tablet

  - Problems will be similar to homework

- Why

  - At least one test that has to be done in person

  - No final exam due to projects

Project

Have fun, learn stuff