COMP2261 ARTIFICIAL INTELLIGENCE / MACHINE LEARNING

Logistics of the sub-module

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learning lab

Content

- Philosophy behand machine learning
- Fundamental concept of machine learning
- Workflow of machine learning projects
- Machine learning algorithms
- Evaluation Matrices

(check the topic list on DUO for details)

Learning Outcomes

- Key principles of machine learning for use in managing datasets and building models
- Core methodologies in relation to managing data and training models

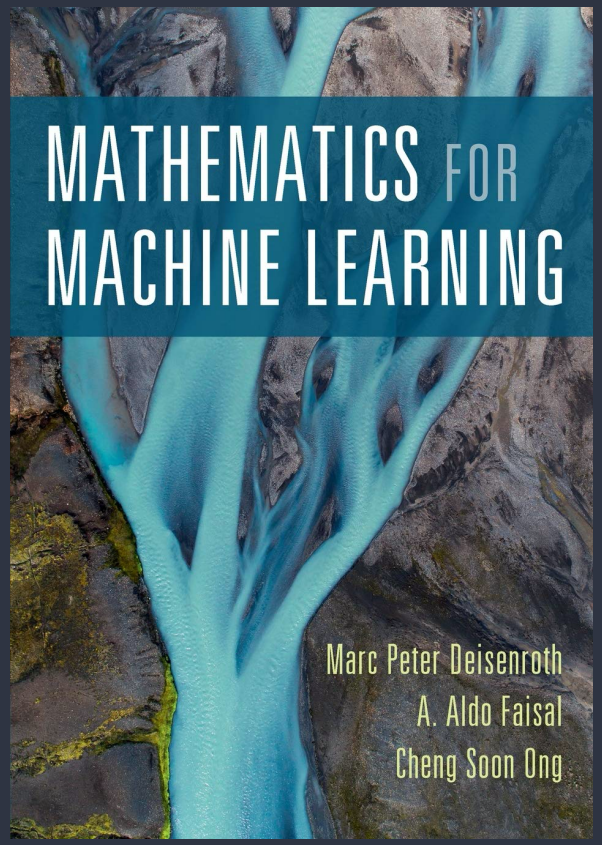
Delivery Methods

- Lectures
  - One lecture per week
  - A few videos per lecture
- Practicals
  - One hour, odd weeks
- Assessment
  - 100% on coursework
  - Scientific report
- Office Hours
  - Zoom meeting
  - Drop-in anytime (in the hour)
- Discussion Board
  - On DUO
- Self-study
  - Recommended books
  - Online tutorials

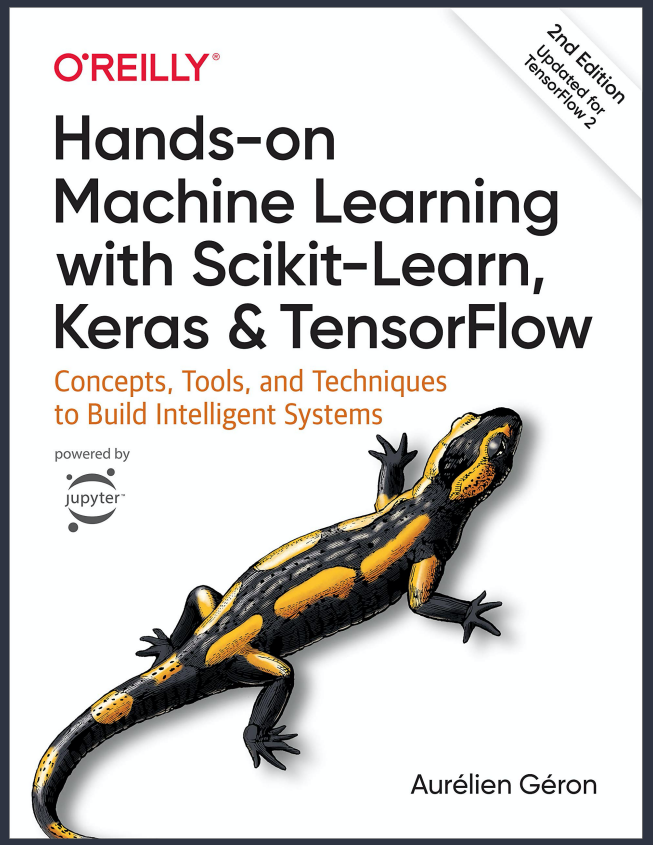
Materials

- Slides, uploaded on DUO before 15:00 on Tuesdays
- Videos, uploaded on DUO before 15:00 on Tuesdays
- Tutorials/exercises, provided on DUO on Friday in even weeks

Recommended Reading



Help understand machine learning algorithms



Hands-on exercises

Important Time & Date

Lectures:	15:00-16:00, Tuesdays, every week
Practicals:	Check your individual allocation
Office Hours:	16:00-17:00, Tuesdays in odd weeks
Assignment Hand out:	14:00, 19 January 2021
Assignment Deadline:	14:00, 5 May 2021

General Advice

- Take it slowly in the beginning
- Keep up with the schedule
- Use as many online resources as you can
- Spend some time to review/(re)learn the math
- Ask yourself often what is machine learning and why you need it
- Start the coursework early
- Communicate with your peers, the demonstrators and me.