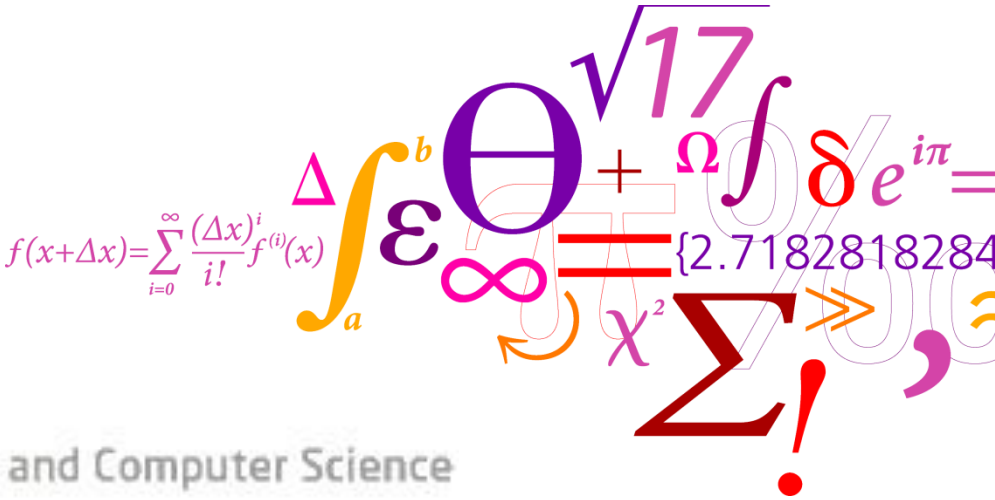
Welcome to
Advanced Topics in Machine Learning (02901)

Machine Learning and Human Cognition

Ph.D. Summer School
17th of August – 21st of August 2020

We thank our sponsor:
DTU Compute PhD School



DTU Compute
Department of Applied Mathematics and Computer Science

Course details

- The course gives 2.5 ECTS
- The course is passed by handing in a small report using one (or more) of the following topics covered in the course
  - ❖Bayesian Optimization
  - ❖Active Learning
  - ❖Causality
  - ❖Reinforcement Learning

Preferably applied to your own domain.

The reports must include a short discussion of relations between the approach used and human cognition.

- Report evaluation: Pass/Fail
- Report length: 3 pages
- Deadline for submitting report: Sunday 13th of September
- Report to be uploaded on DTU inside (https://cn.inside.dtu.dk)

Put in the comment field topic(s) covered by the report

Further about the report

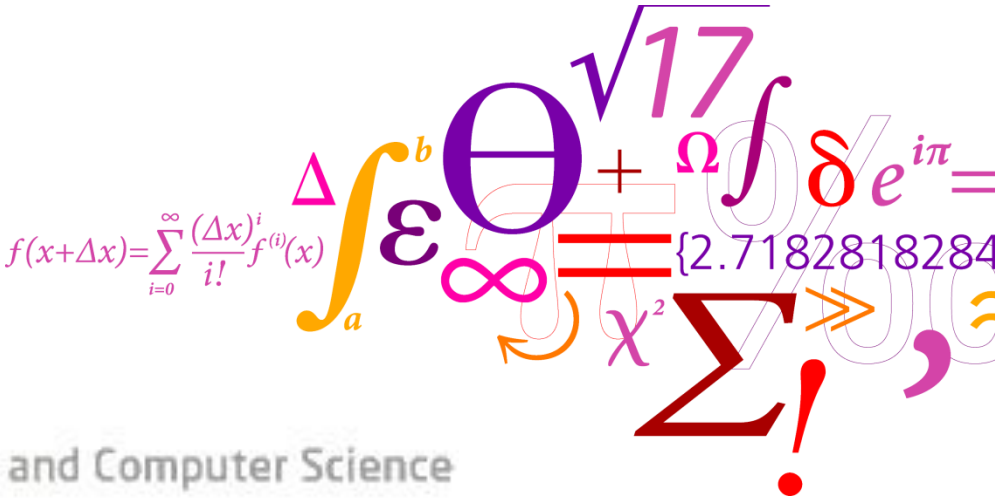
» You should hand in the code you developed together with the report
  – For example via sharing it on GitHub
» The report has to be individual (cannot be done in groups)
  – The report has to be individual
  – Code has to be individual
  – Project topics and data does not have to be individual
» If you find it hard to relate the topics to your own research
  – Extend one of the exercises from the course
  – Try to implement a small test case, could be on simulated data
  – Implement a method from a research paper on a small example dataset
» If you find it hard to relate to human cognition
  – As a perspective comment on how methods used are inspired by human cognition
  – How would a human accomplish the task – if relevant
» 2.5 ECTS points
  – ~2 weeks full work load (actual participation, revisiting course material and report)
  – Expected work load for report is no more than one week (like somewhat less)

Thank you!

We hope you could benefit from the course

Apologies for all the technical issue we had with videos streaming and online teaching

Please remember to evaluate the course at:
www.evaluering.dtu.dk



DTU Compute
Department of Applied Mathematics and Computer Science