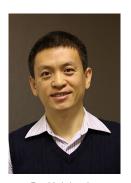
# COM4509/6509 Machine Learning and Adaptive Intelligence

Department of Computer Science, The University of Sheffield

#### Instructors



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### Content of the module

Week	Starting	Subject	Lecturer
1	Sept 27	Intro. to ML and Review of Prob-	MA
		ability	
2	Oct 4	End-to-End machine learning	MA
3	Oct 11	Decision trees and ensemble	MA
		methods	
4	Oct 18	Linear regression	MA
5	Oct 25	Automatic differentiation	MA
6	Nov 1	Logistic regression	HL
7	Nov 8	Neural networks	HL
8	Nov 15	Unsupervised learning	HL
9	Nov 22	Deep generative models	HL
10	Nov 29	Advanced applications of ML	HL

## Materials available to you

- □ **Slides** accompanying the lectures, posted in Blackboard (BB).
- Jupyter Notebook. Each session will be accompanied by a Jupyter Notebook to illustrate practical aspects of the Lecture. Lab sessions will be based on these Notebooks.
- Github repo for the module:

https://github.com/maalvarezl/MLAI/

- Exercise sheets. Additional exercise sheets will be available with solutions released a week after.
- □ **Videolectures**. We recorded several videolectures to deliver the module last year. This will be offered as supplemental material. Beware that not all the content will be the same.

## If you're at Sheffield ...

- Face-2-face (f2f) Lectures and Labs.
  - Tuesdays, 10:00 am. A hour-long lecture in Diamond LT4.
  - Wednesdays, 12:00 pm. A hour-long lab in Diamond PC Rooms 1 and 3.
  - Fridays, 1:00 pm. A hour-long lecture in Diamond LT3.
- Online synchronous sessions with the TAs. We will offer two one-hour online help-desk sessions per week.
  - Mondays, 9:00 am.
  - Thursdays, 4:00 pm.

Instructions about how to connect will be posted on BB.

 Discussion board. You can use the Discussion Board in Blackboard to ask questions (managed by the instructors).

## What if you haven't arrived at Sheffield?

- Encore. Lectures are automatically recorded through Encore. You will be able to access these recordings just after each f2f lecture (accesible from BB).
- Lab session. In parallel to the lab session that runs on Wednesdays 12 pm, there will be a BB collaborative link where you'll be able to receive help online.
- Online synchronous sessions with the TAs. We will offer two one-hour online help-desk sessions per week
  - Mondays, 9:00 am.
  - Thursdays, 4:00 pm.

Instructions about how to connect will be posted on BB.

 Discussion board. You can use the Discussion Board on BB to ask questions (managed by the instructors).

#### Office hours

- For the first five weeks, I'll be offering two office hours through BB (Collaborative link).
  - Wednesdays, 10:00 am to 11:00 am.
  - Fridays, 9:00 am to 10:00 am.

#### We will use Blackboard for:

- Sharing course material.
- Office hours with the instructor.
- A discussion board.
  - The discussion board IS for:
    - asking general questions about the contents of the lectures/labs.
    - clarifications about the assignments.
    - if you know the answer to somebody else's question, please answer. Help your peers!
  - When it comes to the assignment, the discussion board IS NOT for:
    - asking us how to solve the assignment.
    - giving the solution to what is being asked in the assignments.
    - posting screenshots of your code and the errors in your code asking us to debug your code.
- Only email the Module leader if you have personal questions or issues.
  Otherwise, please use the discussion board.
- Please, be professional and polite.

#### **Assessment**

- An assignment (% 50)
  - First part to be released on Friday, Nov 5, 3:00 pm.
  - Second part to be released on Friday, Nov 19, 3:00 pm.
  - Handle in Friday, Dec 3, 3:00 pm.
- Exam (% 50), at some point between Jan 17 and Feb 4, 2022 (TBA).
  - The exercise sheets contain typical exam questions. We strongly encourage you to work on the exercise sheets on a weekly basis rather than waiting until the Exam to look at the solutions for those exercises.

## Marking and Feedback

#### Taken from the Student Handbook:

"Your lecturer will mark your work within a reasonable period. A reasonable period is

- within a week, for short question sheets from small classes;
- within three working weeks, for larger pieces of work or work for very large classes (if this includes a vacation this is five weeks),"

## Health & Safety

## Take precautions on campus

- Wear a face covering in crowded places and when sitting close to others
- Get vaccinated if you haven't already
- Wash your hands regularly hand sanitiser is available across campus
- Follow one-way systems make space for each other when moving around
- Take two Covid-19 tests each week
- Stay at home if you feel unwell, even if it's just a cold



Enjoy campus safely