

COMS30035, Machine learning:

Unit organisation

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Unit github page

- ▶ Most teaching materials and information are accessed via the unit's github page: <https://uob-coms30035.github.io/>
- ▶ This also gives you the unit schedule.
- ▶ There is a Blackboard page, but this is used only for quizzes.

Teaching staff

- ▶ [James Cussens](#) is the only lecturer for this unit.
- ▶ The following people are GTAs on the unit: Akin Eker, Siddhant Bansal, Shijia Feng, Omar Emara, Saptarshi Sinha, Tianye Wang and Kal Roberts.
- ▶ I give all the lectures.
- ▶ We are all present at drop-in sessions and labs.

Teams

- ▶ There is a Teams group for this unit. It has 2 public channels:
 - General** Read-only for students. (We might use this for announcements, but we can also use Blackboard for that.)
 - Open** Students can post here. Feel free to use it as you wish; for example to ask questions.
- ▶ There is a separate Teams channel for students doing this unit as a MAJOR which is set up similarly and will be used for MAJOR-specific stuff (such as the coursework).

Teaching sessions

- ▶ Lectures on Mondays and Wednesdays (both at 0900).
- ▶ Drop-in session on Thursdays (1200) followed, from Week 3 onwards, by a 3-hour lab starting at 1500.
- ▶ During week 6 there is no teaching and during the coursework period (weeks 9-11) there is no teaching apart from coursework support sessions (1500-1700 Thursdays).

Special arrangements for Weeks 1 & 2

- ▶ Since the Linux lab in QB1.80 did not become ready in time, the labs for the first two weeks will be in **MVB1.15**.
- ▶ In addition, these labs will only last 2 hours and will start at **1600** not 1500.
- ▶ MVB1.15 has only 75 computers and there are 105 students on this unit, so some of you may have to share with a friend if everyone turns up and uses the MVB1.15 computers (which is unlikely).

Quizzes and problems

- ▶ There are Blackboard quizzes and exercises associated with the lecture material.
- ▶ Pointers to these are included at the end of the slides for the relevant lecture.
- ▶ These are **formative** not **summative**, i.e. they do not count towards your mark for this unit.

Drop-in sessions

- ▶ You are not obliged to attend any drop-in sessions.
- ▶ You can get help with the quizzes and exercises by coming to a drop-in session.
- ▶ But you can also ask us about anything at the drop-in sessions, e.g. further explanation of lecture material, pointers to additional reading, etc.

Assessment

- ▶ If you are doing this unit as a MAJOR (COMS30083), then you are assessed by a mid-term in-class test in week 6 (30%) and coursework (70%) done during weeks 9-11.
- ▶ If you are doing this unit as a MINOR (COMS30081), then you are assessed by answering Machine Learning questions (equivalent to a 1-hour exam) in the *Topics in Computer Science* December exam. This is a closed-book exam.

Labs

- ▶ During lab sessions you do machine learning exercises.
- ▶ You can use either the machines in the room or your own machine.
- ▶ The machines in the room have the necessary ML software installed.
- ▶ You need to take certain steps to access that software: see the section on Lab Work on the [unit github page](#).
- ▶ If you choose to use your own machine you will have to install the necessary software yourself. This is entirely doable and we're happy to attempt to help you if you hit installation problems, but we can't guarantee to be able to fix all such problems (particularly if you choose to use Windows).
- ▶ Labs are the most important part of the unit since there you actually **do** machine learning, rather than merely hear about it.

Python

- ▶ All your coding on this unit will be done in Python.
- ▶ This code will call ML library methods supplied by packages such as scikit-learn, pytorch and PyMC.
- ▶ (Note that Python is mostly used as a wrapper; the native code called by Python was typically compiled from C/C++/Fortran source.)
- ▶ Your code will either be a regular script or in a JupyterLab notebook.
- ▶ Python coding, per se, is not taught on this unit.