

Course 0: generalities and evaluation



IMT Atlantique
Bretagne-Pays de la Loire
École Mines-Télécom

Discord server

- <https://discord.gg/ZuHcNMefaY> (use this link only to join the first time)
- Please immediately change your login to your first name and last name



Sessions

- 1 Generalities about AI (today),
- 2 Supervised learning,
- 3 Unsupervised learning,
- 4 Deep Learning,
- 5 Foundation models,
- 6 Adaptation of models,
- 7 Debate - Ethics in AI,
- 8 Work on final project,
- 9 Final project presentation.

Sessions schedule

Each session has (roughly) the same structure:

- Short quiz about the previous lesson (10 min),
- Lesson (1h),
- Lab Session,
- Project,
- Sessions 3, 4 and 9 include students' presentations

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Lab sessions

- Python based
- sk-learn for "classical" machine learning
- pytorch for deep learning

You are expected to finish a Lab before the start of the next Lab session!

Course organisation (3/4) – Evaluation

Evaluation modalities

- QCM on Moodle on the first course of the day (9:30 am in general)
- Exam (on paper) mid-UE
- Presentations - sessions 3,4 + **Final Deliverable** - session 9

QCM

- Documents or AI models to answer questions are forbidden during the QCM
- QCM have to be done in the room, **no remote access**

Exam – Friday, the 7th

- The exam is individual, on paper, and concerns sessions 1,2,3,4
- Electronic devices, and in particular AI models, are forbidden
- You are authorized to prepare two A4 manuscript pages (recto/verso)

Course organisation (4/4) – Presentations

Work in binomes.

Reversed Classroom (Sessions 3 and 4)

- The group is the teacher!
- Presentations of 7+3 minutes
- Session 3 for odd number binomes
- Session 4 for even number binomes
- More details will be given on Discord

Final presentation (Session 9)

- Work on a project of your choice
- Evaluation by the teachers
- More details will be given in due time