Course 0: generalities and evaluation

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

Discord server

- `https://discord.gg/aDUvzE4s` (use this link only to join the first time)
- Please immediately change your login to your first name and last name

Course organisation (1/3)

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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Course organisation (2/3)

Lab sessions

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

Evaluation modalities

- QCM on Moodle on the first course of the day (9:30 am in general)
- Documents or AI models to answer questions are forbidden during the QCM
- QCM have to be done in the room, **no remote access**
- Presentations - sessions 3,4 + **Final Deliverable** - session 9

Course organisation (3/3)

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