

Projects Organization

Introduction to Machine Learning - ELEN0062

Thursday 8 October - 2026-2027

Resources

- Projects website: <https://iml.isach.be>
 - Resources for Python and writing your report
- Questions? Ask them on **eCampus**.
- Gradescope: used to submit your projects. Code: **JN44ND**
- Other questions? Contact the assistants:
 - Sacha Lewin (sacha.lewin@uliege.be)
 - Maxime Temoschenko (maxime.temoschenko@uliege.be)

Projects

- Three projects throughout the semester
 - Project 1: Classification (Due 23 October!)
 - Project 2: Bias and variance analysis
 - Project 3: Competition on an ML problem
- Groups of 2 or 3 only.

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Project 1

Topic

- Available now on the projects website.
- You will:
 - Study and compare classification algorithms, including a new one.
 - Learn to implement a classification algorithm.
 - Explore how hyperparameters affect decision boundaries depending on the dataset
 - Explain your observations: under/overfitting, assumptions, ...

Project 1

Submission

- Gradescope: code **JN44ND**
- Two assignments: code and report
- **Use the provided LaTeX template.**
- Maximum 4 pages, including figures and tables. Be concise.
- We ask you to report your use of AI.

Project 1

Experiments

- Good practice = reproducible experiments!
 - Fix random seeds.
- Follow the instructions for splitting data, plotting, ...
- Do not repeat the statement when answering.

Use of Generative AI

- Neither encouraged nor required.
- The less you use external tools, the better and more you learn!
- You must understand every line of code. You might be asked to explain any part, including at the exam.
- **Failure to disclose or explain may be considered academic fraud.**

Use of Generative AI

- We ask you to declare how you used AI for each project.
 - Which tools?
 - For which tasks? What kind of prompts?
 - How did you verify the output?
- If you've not used AI at all, specify it.

Getting started

- Download the code, statement and report template on the website.
- Set up you Python environment.
- Start early and ask your questions on eCampus.
- Good luck!