# Final Project

*Due: Wednesda April 23 2025, 11:30pm on AVENUE (there will be no grace period) and* **late submission will not be accepted !**

**Exercise 1** *Final Project*

As a minimum for a final project you can chose a dataset from `http://archive.ics.uci.edu/ml/index.php` or another repository and model and analyze it using some of the techniques used in the course. You're welcome to go beyond that and look at techniques such as natural language processing, style transfer in image processing, etc.. As long as it is something that is clearly aligned with neural networks and machine learning it should be fine. The final project will count for 25% of the mark for the course. The point is to perform some independent work on a subject that you find interesting. A write up is needed but we will limit the page count to 10 pages. See below.

While it is natural to reuse code in many settings it will not be acceptable to simply submit a python notebook you have found on the internet. You should quote your sources and show your independent usage.

The rules are the following:

1. It will be fine to submit in the format of a jupyter notebook, but you can also do a separate write up along with the code.
2. The project has to have a working code that we can execute. So make sure that you upload datasets etc and that figures are reproducible.
3. A significant part of the mark for the project will be based on your explanations and observations.
4. If you only use a jupyter notebook make sure to have lots of text boxes to explain and analyze your results. You can also have a separate text file with a write up if you prefer.
5. The jupyter notebook should be accompanied by a pdf of the same notebook along with pdf of any text file.
6. It is important to write a good report of your work that can be followed and understood.
7. The combined pdf file of code+write up should not exceed 10 pages. If you run over it's OK, we won't throw it out - but try not to.
8. The final project will be marked using the following rubric:
    - Quality and complexity of project 25%.
    - Creativity and innovation 25%.
    - Quality of coding (correctness is not enough) 20%.
    - Quality of writeup 30%.