

Evaluation for ‘Principes Théoriques de l’Apprentissage Profond’ ‘25/‘26

Logistics

Form groups of **at most two students**.

Before Jan 6th 2025, send an email to “hedi.hadji@l2s.centralesupelec.fr” with “[TDL]” in the subject. Send an ordered list of **three available papers** in the body of the mail + the names of the members of the group.

You can also make your own suggestion, by Dec 23rd at the latest. I may refuse if the suggestion is not on the topics discussed in class.

Papers will be assigned on a first come first served basis, and the list be updated at least once a day.

I encourage you to choose early and start reading.

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Due date: 1 février 2026, on Edunao.

- Between 3 and 5 pages in a pdf.
- Describe the main ideas of the paper.
- Pick **one** contribution that you will expand on.
- Illustrate the result with a simple experiment.

Describe the main ideas of the paper: the setting, the question(s) the authors try to answer, the solution provided. The report should present the ideas used in the proof of a chosen result **in your own words** as well as a small experiment illustrating the phenomenon described in the paper, in the spirit of the TP in class. You can build on code found online, with proper reference. **Provide the full code** for the experiment, preferably on a github repo but a zip is fine.

You **can** be critical of the paper, e.g., you may find that the paper relies on unrealistic assumptions, that it does not really achieve what is claimed, or that it does not describe the experimental setting with enough details to reproduce.

Here are a few references with tips for reading papers: [one](#) and [another one](#).

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2 février 2026. ~ 8 min / group. Print 4 or 5 slides in A4 format. Prepare a 5 min pitch of the paper

- Explain mainly the context and the result you chose for the report.
- Describe either the proof of the result or the experiment, very succinctly.

Questions of any kind are welcome.

PS: les rendus peuvent être en français ou en anglais.