

# Week 5 exercises

# What's on today?

Gnoto <https://gnoto.epfl.ch/>

Login with your EPFL credentials

10:15 – 11:00

Practice 5

HuggingFace datasets & tokenizers  
Fine-tuning a pretrained transformer

11:15 – 12:00

Submission 1 Week 5

Scaled dot product attention  
Multi-head attention  
Absolute positional encoding  
Rotary positional encoding

**Submission 1** – all exercises released  
Deadline in three weeks – **8<sup>th</sup> April, 23:59**

# Submission 1 Instructions

Files to submit: S1\_SCIPER.zip

S1\_SCIPER/

- Marked\_exercises\_submission1\_lecture2.ipynb
- Marked\_exercises\_submission1\_lecture3.ipynb
- Marked\_exercises\_submission1\_lecture4.ipynb
- student\_model.pt
- student\_model\_before\_init.pt
- student\_model\_after\_init.pt
- quantized\_student\_model.pt
- Marked\_exercises\_submission1\_lecture5.ipynb

## Important!

- The folder name should contain your **SCIPER number** and files should remain with their **original names**
- Notebooks have to contain **pre-computed outputs**, which were computed on **Gnote** using **Python3 kernel**
- We should be able to run your notebooks on Gnote **without any code modifications\*** and in a **sequential order**: run “Restart kernel and run all cells”.

\*We will add source files if needed.

