Introduction & Organization

DEEP LEARNING KU (DAT.C302UF)

Simon Hitzginger

Oct 22, 2025

Institute of Machine Learning and Neural Computation
Graz University of Technology, Austria

Weekly Sessions

Simon Hitzginger
(simon.hitzginger@tugraz.at)

- Handout of Assignments

- Questions regarding Assignments

- Presentation of Implementations (Demos)

Teaching Assistants

Leon Tiefenböck
(tiefenboeck@student.tugraz.at)

Nico Ohler
(nico.ohler@student.tugraz.at)

- Grading assignments

Course Organization

Syllabus PDF on **TeachCenter**

- Should include all organizational matters
- You will be notified in class if the syllabus changes

Assignment X
Deep Learning KU, WS 2025/26

Team Members		
Last name	First name	Matriculation number
Schmidhuber	Jürgen	12345678
LeCun	Yann	90123456

- **Assignment 1**: Math Basics
- **Assignment 2**: Training (Deep) Neural Networks
- **Assignment 3**: Transformers, Language Modeling
- **Project**: Deep Learning Project

Literature

- Marc P. Deisenroth et al.: "Mathematics for Machine Learning", 2020
  - `https://mml-book.github.io`
- Kevin P. Murphy: "Probabilistic Machine Learning: An Introduction", 2022
  - `https://probml.github.io/pml-book/book1.html`
- Kevin P. Murphy: "Probabilistic Machine Learning: Advanced Topics", 2023
  - `https://probml.github.io/pml-book/book2.html`
- Chris & Hugh Bishop: "Deep Learning – Foundations and Concepts", 2023
  - `https://bishopbook.com`
- Simon J.D. Prince: "Understanding Deep Learning", 2023
  - `https://udlbook.github.io/udlbook/`
- Ian Goodfellow et al.: "Deep Learning", 2016
  - `https://deeplearningbook.org`

Assignment 1 Handout