

Artificial Intelligence Techniques in Manufacturing

Topics

- Getting Started with Python
- Multi-Layer Perceptron
- Convolutional Neural Network
- Recurrent Neural Network
- Transformer
- Large Language Model

Grading

- Assignments / Project: 15%
- Exam (Final): 35%

Installing Python

- Google Colab (No installation required)
- Anaconda Distribution
 - Too big
- Microsoft Store
 - Too barebones
- `uv` package manager
 - Flexible and lightweight

Instructions for **uv**

- Windows
- MacOS

Advise for Using AI

- Use AI as a tool to guild your learning. Not replacing it.
- Do not blindly copy-paste code generated by AI.
- In the exam, AI is not allowed.