



# Nicolas MELAERTS

Master's Student in Computer Science – Focus on AI & Software Engineering

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NicolasMelaerts

## SKILLS

Python C/C++ Java  
Jupyter Notebook Linux  
Bash Git/Github CI/CD  
Latex VScode TensorFlow  
PyTorch OpenCV Docker

## LANGUAGES

English  
French  
Dutch

## INTERESTS

New technologies  
Computer Vision  
Deep Learning  
Natural Language Processing  
Sports  
Padel-tennis  
Travel  
Cultural discoveries

## PROFILE

23-year-old student in Master 1 in Computer Science at UMons, I am looking for a **10-week internship** between September and December 2025, combining software engineering and artificial intelligence, with a particular interest in applying both classical and deep learning methods to real-world cases. My skills are reinforced by completing several projects during my studies that involve deep learning, computer vision and the use of large language models (LLMs), using models such as convolutional (CNN) and recurrent (RNN) neural networks, autoencoders, and transformers.

Autonomous, curious, and motivated, I am ready to tackle technical challenges and experience an international professional environment.

## EDUCATION

Master's in Computer Science

September 2024 - ongoing

University of Mons

Bachelor's in Computer Science

September 2019 - January 2024

Université Libre de Bruxelles

Secondary studies with focused on mathematics and advanced sciences

September 2013 - June 2019

Athénée Royal Uccle 2 (Brussels)

## EXPERIENCES

Project: Fire detection and localization using Deep Learning

github.com/NicolasMelaerts/fire-detection

Semester 1 - Master 1

University of Mons

Project: Fake news classification using language models

github.com/NicolasMelaerts/fake-news-detector

Semester 1 - Master 1

University of Mons

Project: Brain tumor segmentation with autoencoders and Deep Learning

github.com/NicolasMelaerts/AEs-for-brain-tumor-segmentation

Semester 1 - Master 1

University of Mons

Language immersion program in South Africa (WEP)

June 2023 - July 2023

Cape Town