

Nordin Belkacemi

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🌐 nordinbelkacemi.github.io/resume

I am a graduate student at the University of Amsterdam, pursuing a Master's in Artificial Intelligence. Previously, I studied computer engineering in Budapest, and completed a 1 year Deep Learning Engineer internship at Continental Automotive Hungary Kft. I speak fluent Hungarian, English, French and know a little bit of German. My main interests are in the field of AI, Deep Learning and Computer Vision. My Bachelor's thesis project was a research topic proposed by Continental Automotive and involved implementing an object detection model (YOLOv4/v5) from scratch, then investigating the potential benefits of Multi-task learning, where the different tasks were to detect subsets of object classes separately. In the first year of my Master's in AI, I have gained a newfound interest in Graph Neural Networks, Diffusion models, Medical Imaging and Natural Language Processing, through several group projects. We presented these projects either in class or on Campus wide poster sessions, for all students and faculty to see, and submitted one of them to the TMLR journal. I am currently seeking a position in the field of AI that will allow me to apply my knowledge and skills to solve industry problems, while also providing an opportunity to work on my thesis.

🎓 Education

University of Amsterdam (2023-Present)
Artificial Intelligence Msc.

Budapest University of Technology and Economics (BME) (2019-2023)
Computer Engineering BSc.

Coding Bootcamp in Montreal (Summer 2018)
Full Stack Web Development in Ruby on Rails

American International School of Budapest (2012-2015)
High School and IB Diploma

🧰 Work Experience

Deep Learning Engineer Intern at Continental Automotive Hungary Kft. (2022 - 2023)
Part of a team that develops tools to train and evaluate neural networks for object detection, semantic segmentation and depth estimation.

University teaching assistant at BME (2020 Fall semester)
I answered students' questions about assignments and graded final projects (basics of programming in C).

Web development freelancing (2020 - present)
I built a website using the Ruby on Rails framework and deployed it on Heroku. I perform small database cleanups, maintenance and add features at my client's request about once a year.

Math tutoring (2017 - 2020)
I taught mostly 11th and 12th grade students preparing for their IB exams.

🔧 Tools and Skills

- Python, NumPy, PyTorch
- C
- C++
- Ruby, Ruby on Rails
- Java
- HTML, CSS, Sass, JavaScript
- Android development, Kotlin
- Flutter
- C#, .NET, SQL, T-SQL (and other data-driven systems tools)

🔗 Notable Projects (More projects at nordinbelkacemi.github.io/resume)

Diffusion Auto-Vocabulary Segmentation

MSc Project. An attempt to adapt a model developed for Person Image Synthesis - which given an image of a person and an arbitrary pose mask, generates a picture of the same person in the given pose - to perform open vocabulary image segmentation.

Multitask Object Detection

BSc Thesis project. I implemented an object detection model (YOLOv4/v5) from scratch, then investigated the potential benefits of Multi-task learning, where the different tasks were to detect subsets of object classes separately.

Fair Graph Representations via Automated Data Augmentations

MSc Project. Reproducibility study of a method to automatically augment Graph data, to learn fair graph representations.