

Álvaro Menéndez

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EDUCATION

MSc Artificial Intelligence & Engineering Systems

Track: Hight-tech systems and robotics

TU/Eindhoven - The Netherlands

Sep 2025 - Jun 2027

BSc Data Science & Artificial Intelligence

Maastricht University - The Netherlands

Sep 2021 - Dec 2024

EXPERIENCE

Freelance Software Developer

Personal (alvaromenendez.es)

Madrid, Spain

Jan 2025 - Now

- Developed +5 full stack *SaaS* products including **ML** applied to sports betting, **Automated** SMS sending platform and Interactive language learning apps
- Documented everything (alvaromenendez.es) and achieved **+750K** impressions on my posts

Software Developer

Berinhart (berinhart.nl)

Maastricht, The Netherlands

Sept 2024 - Jan 2025

- Delivered a functional fullstack web-app of a heating control system aimed at end-users (ifthen.sqippa.online)
- Directly involved with the Project Manager to implement the functionalities they requested
- AWS, Django, Rest APIs, Python**

Data Science Intern - Natural Language Processing (NLP)

Ans (www.ans.app)

Maastricht, The Netherlands

Sep 2023 - Feb 2024

- Developed an automated system for tagging exam questions with relevant keywords
- Evaluated model performance using the SQuAD dataset with ground truth tags, demonstrating that fine-tuned, lightweight models outperformed larger models
- Hugging-Face, Python, Classification Models**

Software Instructor

Smart Health And Science School (smarthealthandscience.nl)

Maastricht, The Netherlands

Sept 2024 - Dec 2024

- Delivered programming courses (Scratch, Robotics) to groups of 10-15 students aged 8-12 across four schools as the principal teacher

BACHELOR'S THESIS

“Data Analysis of Classroom Dynamics in Primary Schools Using JOINclusion Game Interactions”

- Applied machine learning to cluster students by in-game behavior and used explainable AI (**SHAP values**) to interpret the resulting patterns.
- Presented research findings in Naples, highlighting that the most important feature for determining student clusters was the frequency of their in-game interactions.

HACKATHONS

Inditex Tech - Ecommerce Recommender System

Dec 2024 - Jan 2025

- Achieved **17th place** out of 1,211 competitors by developing a recommender system to increase add to cart interactions. Demonstrated capability to work with large datasets (Train set contained around 50 million rows)

Hack2Progress - Improving urban movility using AI

28th Feb - 1st March 2025

- Achieved **7th place** out of 21 teams by developing an AI Agent based solution to mitigate traffic issues in urban city areas. Github repo at github.com/DKeAlvaro/Hack2Progress

Hackhaton AXA + Codemotion

29th March 2025

- Developed a fully functional RAG based chatbot to answer queries about user's insurances, including embedding calculations, LLM responses and a simple web based UI. Github repo at github.com/DKeAlvaro/hackhaton.axa.