Alberto Maté

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My expertise centers on Computer Vision and Video Understanding, with 2+ years experience focusing on developing and optimizing AI models for real-world applications. With experience in both research and industry, I have developed strong expertise in multimodal learning, video modeling and deploying production-ready models. Leveraging international experience across Spain, Australia, and Singapore, I've developed a unique perspective on solving complex technical challenges in diverse team environments. Committed to innovation, I aim to push AI's boundaries and deliver scalable, impactful solutions.

Experience

CVML, National University of Singapore (NUS), Research Intern — Singapore, Singapore / Sept 2024 – Present

- Master's Thesis intern at the Computer Vision & Machine Learning [CVML ⧉] lab under the supervision of Guodong Ding and Angela Yao in the field of "Video moment retrieval leveraging multi-modal models".

Instituto de Robótica e Informática Industrial (IRI), AI Research Engineer — Barcelona, Spain / Nov. 2023 – Aug. 2024

- Research in "Long-term action anticipation in untrimmed videos" under the supervision of Mariella Dimiccoli.

Dive.tech, Data Scientist — Madrid, Spain / March 2022 – Aug. 2023

- Led AI development for a client project involving multi-camera, multi-target tracking, ensuring safety by detecting zone transgressions, under the supervision of a PhD.
- Contributed to developing internal tools, including the company's MLOps system, to enhance operational efficiency.

Dive.tech, Data Scientist Intern — Madrid, Spain / Sept. 2022 – March 2023

Education

Universidad Politécnica de Cataluña (UPC), MSc in Artificial Intelligence — Barcelona, Spain / Sept 2024 – Present

- Relevant coursework: Natural Language Processing (NLP), Computer Vision (CV), Deep Learning (DL), Reinforcement Learning (RL)
- Current GPA: 8.85/10

Universidad Carlos III de Madrid, BSc in Computer Engineering — Madrid, Spain / Sept 2019 – July 2023

- Overall GPA: 8.71/10
- Honorous in 8 courses: Linear Algebra, Algorithms and data structures, Automata and formal language theory, among others.
- Bachelor's Thesis: Applications of Deep Reinforcement Learning in autonomous cars (9.1/10) [Project ⧉]

University of Sydney (USYD), Exchange in Computer Engineering — Sydney, Australia / 2022

- Selected for the Excellence Non-European Mobility Program (MNE) and awarded mobility grants by Santander Bank and UC3M
- Obtained High Distinction (HD) in COMP3308: Introduction to Artificial Intelligence

Skills

Programming languages: Python, C++, React, SQL, ...

Frameworks: PyTorch/PyTorch Lightning, W&B, MLFlow

Languages: Spanish (Native), English (C1 certificate)

Soft skills: Proactivity, Hard-working, Adaptability

Awards

3x Excellence Scholarships, Community of Madrid: 2019, 2020, 2021
Tuition Fee Scholarship, SEIDOR: 2023-2024