Anass Anhari

anassanhari@icloud.com

Portfolio | GitHub | LinkedIn

EDUCATION

Master's Degree in Machine Learning and Cybersecurity — 09/2024 - Present
Universitat Politècnica de Catalunya (UPC)

Bachelor's Degree in ICT Systems Engineering — 09/2019 - 09/2023
Universitat Politècnica de Catalunya (UPC)

SKILLS

Programming Languages	Python, C, Apex, VHDL, Erlang
Libraries/Frameworks	Scikit-learn, Pandas, TensorFlow, Flask, Next.js
Tools/Platforms	Docker & Swarm, Azure DevOps, GNU/Linux, Git, SVN, LaTeX
Databases	SQL, MongoDB, Redis, Neo4j

EXPERIENCE

AMAZON | Software Development Engineer Intern — Barcelona, Spain | 03/2025 – Present

- Developing software and machine learning solutions for LLM-based agents.

UPC | Associate Professor — Manresa, Barcelona, Spain | 09/2024 – 02/2025

- Conduct lab sessions for undergraduate students, mentoring, providing guidance and supervising them in their digital systems design projects.

DELOITTE | Developer Analyst — Barcelona, Spain | 09/2023 – 09/2024

- Developed and optimized solutions for major energy clients (Repsol, CHC Energía, Iberdrola), achieving a 62% performance improvement in bulk data operations through queue-based batching and query optimization.

UPC | Flair AI/ML & 5G Research Project — Manresa, Barcelona, Spain | 06/2022 – 08/2023

- Collaborated on an European consortium research project implementing Federated Learning with VEDLIoT integration, and developed a 5G network setup using SDRs and OpenAirInterface5G, publishing an open-source setup manual on GitHub.
- Implemented a voice recognition use case achieving performance comparable to centralized scenarios by optimizing federated algorithms to leverage clients with higher computational resources (GPU, DRAM) across 5G network deployments.

PROJECTS / OPEN-SOURCE

PREDICTING UNIVERSITY ENROLLMENTS WITH MACHINE LEARNING

Python, Scikit-learn, Pandas, Matplotlib, Tkinter

- Developed a tool to predict university enrollments to determine faculty hours to hire and available classroom space, replacing manual and significant efforts that required extensive experience.
- Proposed and implemented Machine Learning techniques generating predictive models based on the previous academic history of the students.
- Achieved an excellent accuracy rate (85% - 95%) in predicting enrollments across the majority of subjects, significantly reducing the complexity of process and revolutionizing it.