

CHORFI YOUSSEF

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Education

ETH Zürich | MSc Data Science

September 2024 – Present

- Core: Advanced Machine Learning, Probabilistic AI, Big Data, Data Management Systems.
- Electives: Large Language Models, Machine Perception, AI Center Projects in ML Research, Control Systems, Robot Dynamics.

EPFL | BSc Computer Science

Graduated July 2024

- GPA: 5.2 / 6. Relevant courses: Algorithms, Parallelism and Concurrency, Operating Systems, Multiprocessor Architecture.

Professional Experience

NutrAI, Zürich | ML Engineer Intern

June 2025 – September 2025

- Worked on estimating how much of a meal a person actually ate, by matching photos taken before and after the meal.
- Built two internal tools that let the team browse, filter and analyse the image dataset, and run experiments on it.

ETH Entrepreneur Club | Event Lead & Organizer

February 2025 – February 2026

- Organized two student events end to end, with a small team of co-organizers: sponsors, logistics, and running the day itself.
- BOOST (Spring 2025), a pitching competition for early-stage startups with a 40 000 CHF prize pool, and Startup Simulator (Fall 2025), a one-day event where teams go through the steps of building a company.

EPFL | Student Assistant

January 2023 – July 2024

- Teaching assistant for five courses in computer science and mathematics: ran exercise sessions, helped students with assignments, and graded work.
- CS-214 Software Construction, MATH-111(d) Linear Algebra, CS-119(h) and COM-102 Information, Computation and Communication, Prepa-131(a) Calculus A.

Personal Projects

agaria.ai, a tool for sales prospecting (May 2025 – Present). Takes over the repetitive part of prospecting: you describe the kind of customer you are looking for, and it finds matching people, looks them up, writes a first message for each one, follows up, sorts the answers, and books the meeting in your calendar. I build the whole thing, from the part that does the searching and writing to the web app people use and a browser extension that reads public LinkedIn pages.

School Projects

Teaching a robot arm to push objects. Got a real robot arm to push 3D-printed objects to a target spot, including around obstacles. The robot first learns from demonstrations how objects move when pushed, then uses that understanding to plan what to do, which also lets it handle objects it has never seen. *PyTorch, Hugging Face.*

Sharing cloud machines between two kinds of jobs. Ran a latency-sensitive service (a memory cache that must answer fast) on the same cloud machines as heavy background jobs, and wrote a controller that shifts computing power between them as the load changes, so the fast service stays fast and the machines are not wasted. *Python, Docker, Kubernetes, Google Cloud.*

Reinforcement learning for continuous control. Implemented the TD3 algorithm from scratch and used it to train agents on continuous control tasks. *PyTorch.*

Heart valve segmentation. Trained a neural network to outline the mitral valve in heart ultrasound images, pixel by pixel. *PyTorch.*

Skills

Machine learning: PyTorch, Transformers, Reinforcement Learning (including model-based), World Models, Robot Manipulation, Computer Vision, Large Language Models and RAG, Hugging Face.

Engineering: Python, C, Java, Scala, Assembly, TypeScript, React, Tailwind, Postgres, Docker, Kubernetes, Google Cloud, Linux, Optuna, Hydra, FiftyOne, Git.

Languages: French (native), English (C1), Spanish (B1/B2).