



Dhia-Elhak Goumri

Computer Scientist

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Marseille, France

Profile

PhD in Machine Learning (Aix-Marseille Université, 2026), with a Computer Engineering background. Strong Machine Learning and Data Science fundamentals, disciplined problem-solving, and a fast ramp-up on new stacks and domains.

Skills

Machine Learning: supervised and unsupervised learning, Transformers, model evaluation, validation and optimization

Data Science: data visualization, analysis, feature engineering, evaluation and communication

Data Engineering: ETL pipelines, web scraping, CI/CD workflows (Git, Linux), Docker

Computer Vision: image processing, deep learning, OpenCV

Python: NumPy, Pandas, Scikit-learn, PyTorch, TensorFlow, Hugging Face, MLflow, TensorBoard

Databases: SQL

Languages: English (C2), French (C1)

Experience

Machine Learning Researcher

Laboratoire d'Informatique & Systèmes

Marseille, France

October 2022 – March 2026

- **Designed and built CHICA:** a large-scale multimodal dataset (audio, video, eye-tracking) of naturalistic child–caregiver interactions
- **Large-scale data analysis:** designed preprocessing workflows for large-scale data pipelines: synchronization, preprocessing, forced alignment, and multimodal annotation
- **End-to-end Machine Learning:** developed multimodal behavioral analysis and predictive tasks for audio, video and timeseries data: preprocessing, feature extraction, modeling, evaluation, and statistical validation
- **Publications:** 4 peer-reviewed papers at CogSci 2024, JEP 2024, LREC-COLING 2024, ICMI 2023

Research Intern

Laboratoire d'Informatique & Systèmes

Marseille, France

March 2022 – August 2022

- **EEG data analysis:** frequency bands extraction and analysis in hyper-scanning

Python Developer Intern

Data Impact by NielsenIQ

Paris, France

January 2021 – June 2021

- **Python:** designed and implemented modules of an in-house web crawling framework for large scale data extraction - 4M data-point/day
- **Data Engineering and Cloud:** worked on data pipelines, deployed and monitored large-scale web crawlers on cloud
- **CI/CD:** best practices, peer-reviewed code in a Git environment, Linux
- **Scrum:** experienced all project phases in an agile environment

Top Rated Python Developer

Upwork

Remote

January 2021 – December 2021

- **Services:** delivered custom automation solutions in ETL and Data Science to international clients

Education

PhD – Machine Learning & Cognitive Science

Aix-Marseille Université

October 2022 – March 2026

Marseille, France

- **Thesis:** Gaze Dynamics in Middle Childhood: An Ecologically Grounded Account

MSc – Machine Learning & Computer Vision

Aix-Marseille Université

September 2021 – September 2022

Marseille, France

- **Grade:** Image, Modèles & Vision – 1st in class (major de promo)

Engineering Degree – Computer Systems

Ecole Nationale Supérieure d'Informatique

September 2016 – August 2021

Algiers, Algeria

- **Courses:** Operating systems, compilers, algorithms, machine learning, networking, databases and optimization
- **End of studies thesis:** Scoliosis assessment in X-ray images using Deep Learning

Honors & Awards

Winner – UmojaHack Algeria: Won a VTC estimated arrival-time prediction competition (120+ participants, 11 universities). (August 2020)