● Grenoble, France.

ABDERRAHMANE AIT GUENI SSAID



SUMMARY

ML Engineer holding a Master's in Data Science and AI from Université Grenoble Alpes. Experienced in cutting-edge AI topics such as knowledge editing in LLMs, applying ML to medical imaging and scalable time-series forecasting. Proficient in multiple programming languages and AI frameworks.

SKILLS

Languages	Programming	Packages		Tools
English: C2 - EF SET	Python 🤚	Pytorch 💍	Matplotlib 🌑	Linux 🐧
French: C1	C/C++ @ +	NumPy 🍿	Seaborn 💮	Shell 🍞
German: A1	Cuda 📀	scikit-learn 🗨 🛍	OpenCV 🔏	Docker 🖐
Arabic: Native	Java 🔮	SciPy S	FastAPI 😝	UV 📙
Kabyle: Native	SQL,	Pandas 📳	MLflow mlflow	Anaconda 🔿
	MPI	Transformers 😕	Ray 🛶	Git 🚸
	OpenMP	LangChain 🔝	pytest ៊	IAT _E X

PUBLICATIONS

• H. A. Khodja, A. Ait gueni ssaid, F. Béchet, Q. Brabant, A. Nasr and G. Lecorvé, "Factual Knowledge Assessment For Language Models Using Distractors", COLING 2025, ACL.

INTERNSHIPS

Engineer Orange - Lannion Ma

Mar. - Aug. 2024

- **Subject:** Evaluation of knowledge editing in large language models (LLMs).
- Contributed to the definition of a **Knowledge Measure (KM)**, to evaluate **atomic knowledge editing** of LLMs. Incorporated temporality. Conducted validation experiments on various LLMs and a random LM.

Engineer

Grenoble Informatics Laboratory

May - July 2023

- Subject: Integrating information retrieval (IR) constraints in deep neural networks.
- Reformulated **IR constraints** to the neural framework by developing the **mathematical foundations**.

Engineer

Grenoble Institute of Neurosciences FGIN

Feb. – Aug. 2022

- **Subject:** Integration of multi-parametric data by ML for the development of an imaging bio-marker in epilepsy.
- Implemented a clustering model using **k-means** and **Gaussian mixture models** for multi-parametric data, and evaluated employing AIC and BIC criterion's. Used mainly **Python**, **scikit-learn** and NiBabel.

Engineer

Grenoble Informatics Laboratory

June – July 2021

- Subject: Data augmentation with GANs for semi-supervised classification applied to images.
- Implemented a **semi-supervised model** in python for the prediction of phase and Euler angles in microscopic data. Evaluated different models and techniques including **GANs**, **SVMs** and **Random forest**.

EDUCATION

M.S. in Data science and AI

Grenoble INP-Ensimag

Aug. 2024

- 2nd year GPA: 14/20 (High Honors).
- 1st year GPA: 13/20 (Top 30% of the class).

Magistère in Computer science

Université Grenoble Alpes

Aug. 2024

• University diploma of research in computer science 3 years GPA: 14/20 (High Honors).

B.S. in Computer science

Université Grenoble Alpes

Aug. 2021

CERTIFICATIONS

• Mathematics for Machine Learning: Linear Algebra, (2023), Imperial College London, Coursera.

PROJECTS

2025

- **Retail Forecasting Microservice:** Architected and containerized a per-store time-series pipeline using Prophet for modeling, Ray for parallel training, MLflow Registry for model versioning & monitoring, FastAPI for low-latency inference, and Docker/Kubernetes for scalable deployment.
- LangChain Chat with Your Data, deeplearning.ai.
- Made With ML: Combine machine learning with software engineering to design, develop, deploy and iterate on production ML applications.

2024

- HomeLab: A home server running multiple VMs and docker containers nodes on a Proxmox hypervisor.
- Finetuning Large Language Models, deeplearning.ai.
- Pretraining LLMs, deeplearning.ai.
- Let's reproduce GPT-2 (124M), Andrej Karpathy Tutorial.
- GPU-Accelerated Multilayer Perceptron from scratch for MNIST Digits Classification.

2023

- ML Algorithms from scratch, Perceptron, Gradient descent, K-means, MLP.
- Let's build GPT: from scratch, in code, spelled out, Andrej Karpathy Tutorial.
- SAT Solver, Automated Planning and Problem Solving using PDDL4J and Sat4J.
- **Distributed Messaging System using Virtual Overlay Ring Network**, Designed and implemented using Java and RabbitMQ, highlighting expertise in distributed systems and routing algorithms.
- **System Programming NachOS**. Collaborated in a team to implement processes, threads and synchronization features in the NachOS, gaining experience in OS design, implementation and multithreading.

2022

- **Balloon Breaker:** Developed a ROS-based C++ pipeline, coding the core contour-based balloon detection algorithm and integrating real-time tracking and control nodes; validated across multi-color scenarios.
- **Internships web scraping** Developed an automated application to extract and organize internship proposals from the faculty website into a CSV format. Python, Pandas, BeautifulSoup.

WORK EXPERIENCE

Student Tutor

Self-employed - Grenoble

Sept. 2019 – Present

- Taught maths, physics, chemistry and computer science, to all ages ranging from children to elderly.
- Skills: teaching, communication, patience, problem-solving, adaptability, time management.

Education Assistant

Grenoble High School

Sept. 2021 - Aug. 2023

- Facilitated student growth through comprehensive residential support and dedicated supervision.
- **Skills:** leadership, responsibility, communication, mediation, teamwork.

Student Tutor

SOLUTION BILINGUE

Dec. 2018 - June. 2019

- Taught maths, physics and chemistry, to pupils ranging from elementary to high school.
- Skills: teaching, communication, patience, problem-solving, adaptability, time management.

VOLUNTEERING

- **Technical Support.** Provided technical support by maintaining and troubleshooting surveillance cameras, video projection, and sound systems, along with other technical tasks.
- **Bread collection.** Coordinated the collection of surplus bakery bread for distribution to those in need through a charity.
- Local cleaning. Contributed to the maintenance and cleanliness of a local community association.