Looking for a PhD or Engineer position in ML, DL, or AI. **Available Immediately**

📍 Grenoble, France.   ABDERRAHMANE AIT GUENI SSAID   📞 +33 7 54 13 65 89
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SUMMARY

ML researcher 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 and applying ML to medical imaging. Proficient in multiple programming languages and AI frameworks. Seeking a PhD position in ML, DL or AI.

SKILLS

Languages: English: C2 - EF SET, French: C1, German: Beginner, Arabic: Native, Kabyle: Native.

Programming: Python, C/C++, MPI, OpenMP, Cuda, Java, SQL, Git, Java RMI, RabbitMQ.

Packages: Pytorch, NumPy, SciKit-Learn, SciPy, Pandas, Transformers, Matplotlib, Seaborn, OpenCV, BeautifulSoup.

Tools: Linux, Shell, LaTex, GDB, Docker, Anaconda.

PUBLICATIONS

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

INTERNSHIPS

Research Engineer   **Orange - Lannion**   **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.

Research 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**.

Research Engineer   **Grenoble Institute of Neurosciences**   **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.

Research 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

2024

- **Made With ML**: Combine machine learning with software engineering to design, develop, deploy and iterate on production ML applications.
- **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

- **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.