**Looking for a Phd or Engineer position in AI, ML, DL or DS**

Grenoble, France.

# Abderrahmane Ait gueni ssaid

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## 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**

## INTERNSHIPS

**Research Engineer** — **Orange - Lannion** — **Mar. – Aug. 2024**

- **Subject:** Evaluation of knowledge editing in large language models (LLMs).
- Team: NADIA (NAtural DIAlogue)
- Supervisor: Dr. Gwénolé Lecorvé.
- 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.
- Team: Algorithms, Principles and TheorIes for collaborative Knowledge acquisition And Learning (APTIKAL).
- Supervisor: Prof. Eric Gaussier.
- Reformulated some **IR constraints** to the neural framework.

**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.
- Team: Functional Neuroimaging and Brain Perfusion
- Supervisor: Dr. Emmanuel Barbier.
- 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.
- Team: APTIKAL.
- Supervisor: Prof. Massih-Reza Amini.
- 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**.

## SPOKEN LANGUAGES

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

## PROGRAMMING LANGUAGES AND FRAMEWORKS

- Python; C/C++; Java; SQL; Shell; Linux; Git; Java RMI; RabbitMQ; LaTex; GDB; Docker; Anaconda.
- Pytorch; NumPy; SciKit-Learn; SciPy; Pandas; Transformers; Matplotlib; OpenCV; Cuda; BeautifulSoup.

## PUBLICATIONS

- **Factual Knowledge Assessment For Language Models Using Distractors**, 2024, (Under Review).

## CERTIFICATIONS

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

## PROJECTS

**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**

- **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.