Grenoble, France.

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Education

Grenoble **Grenoble INP-Ensimag** **Sep. 2023 – Aug. 2024**

- 2nd year M.S. in Computer science - Data science and Artificial intelligence.

Grenoble **Université Grenoble alpes** **Sep. 2020 – May 2024**

- 1st year M.S. in Computer science, June 2023.
- B.S. in Computer science, June 2021.
- Magister in Computer science, a research program, Sep. 2020 – Aug. 2024.

Research Internships

Orange Labs - Lannion **Mar – Aug 2024**

- **Subject:** Evaluation of knowledge editing in large language models (LLMs).
- Team: NADIA (NAtural DIAlogue)
- Supervisor: Dr. Gwénolé Lecorvé.

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).
- Tutor: Prof. Eric Gaussier.
- Reformulated some **IR constraints** to the neural framework.

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
- Tutor: 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.

Grenoble Informatics Laboratory **June – July 2021**

- **Subject:** Data augmentation with GANs for semi-supervised classification applied to images.
- Team: APTIKAL.
- Tutor: 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**.

Programming Languages and Technologies

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

Licenses & certifications

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

Technical Experience – Projects

- **ML Algorithms from scratch** (2023). Perceptron, Gradient descent, K-means, MLP.
- **Distributed Messaging System using Virtual Overlay Ring Network** (2023). Designed and implemented using Java and RabbitMQ, highlighting expertise in distributed systems and routing algorithms.
- **System Programming - NachOS** (2023). Collaborated in a team to implement processes, threads and synchronization features in the NachOS, gaining experience in OS design, implementation and multithreading.
- **Internships web scraping** (2022). Developed an automated application to extract and organize internship proposals from the faculty website into a CSV format. Python, Pandas, BeautifulSoup.

Student Employment

Student Tutor **Self-employed - Grenoble** **Sep. 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** **Sep. 2021 – Aug. 2023**

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

Spoken Languages

- English: Full professional proficiency (FPP).
- French: FPP - TCF C1
- Arabic, Kabyle: Native.

Volunteering

- Contributed to the maintenance and cleanliness of a local community association.
- Coordinated the collection of surplus bakery bread for distribution to those in need through a charity.