

Seeking a 4.5+ month research internship in AI/ML/Deep Learning between Feb. 2024 and Aug. 2024.

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

Grenoble Informatics Laboratory **May – July 2023**

- Subject : Integrating information retrieval (IR) constraints in deep neural networks.
- 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.
- 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.
- 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; JetBrains; Anaconda.
- TensorFlow; Pytorch; NumPy; SciKit-Learn; SciPy; Pandas; Keras; Matplotlib; OpenCV; BeautifulSoup.

Technical Experience – Projects

- **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.