

Looking for a research internship in machine learning or deep learning

Grenoble, France.

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Education

Grenoble	Grenoble INP-Ensimag	Sep. 2023 – Aug. 2024
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- Second year of master in Computer science - Data science and Artificial intelligence.

Grenoble	Université Grenoble alpes	Sep. 2020 – May 2023
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- First year Master in Computer science, June 2023.
- Bachelor degree in Computer science, June 2021.

Research Internships

Grenoble Informatics Laboratory	May – July 2023
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- 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
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- 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
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- 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

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- C/C++; Java; Python; SQL; Shell; Linux; Git; Java RMI; RabbitMQ; Docker; LaTeX; GDB; Valgrind; Google test; JetBrains; OpenMP; Open MPI.
 - TensorFlow; Pytorch; NumPy; SciKit-Learn; SciPy; Pandas; Keras; Matplotlib; OpenCV; BeautifulSoup.

Technical Experience – Projects

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

Spoken Languages

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

Volunteering

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- Helped in making hydro alcoholic gel during COVID.
 - Helped in cleaning the local association.
 - Collected remaining bread at bakeries for an association that distributes it to people in need.