Alexandre Personnic

ML/AI Research Engineer

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Languages

- 🇫🇷 **French** - Native
- 🇬🇧 **English** - Fluent
- 🇪🇸 **Spanish** - Comprehension

Hard Skills

- </> Python - R - Ada - C - Java
- ☁ Cloud Services
  - aws AWS SageMaker & EC2
  - ▦ Azure Functions & VM
  - k Kaggle
  - G Google Colab
- 📄 Version Control & Collaboration
  - git Git
  - 🐳 Docker

Soft Skills

- Q Quick problem-solving and comprehension
- ☷ Hardworking & Organised
- 👥 Collaborative and effective in Teamwork

Personal Project

- 🤖 Simple python bot for MMORPG

Working Experience

Capgemini Engineering - Apprenticeship (Sep. 2021 - Feb. 2024)

Collaborated with a dynamic research team, demonstrating strong analytical and teamwork skills while implementing advanced techniques and fostering a collaborative environment within the team.

Quantization and Dockerisation	*3 Months, in Toulouse, France*

Applied quantization methods to a real-time Speech-to-Text (STT) system.
Dockerisation of the final solution to allow easy usage in company.

Data Augmentation Techniques	*4 Months, in Toulouse, France*

Explored advanced data augmentation techniques for audio datasets.
Implemented comparison benchmark for different methods and models on AWS.

Quantum Machine Learning	*3 Months, in Utrecht, Netherlands*

Implemented quantum machine learning algorithms for structural analysis.

Sustainable AI	*10 Months, in Toulouse, France*

Contributed to project focused on evaluating and reducing the environmental impact associated with AI computations.
Development of python library to measure energy consumption of training and inference. Implementation of workflow on AWS to document energy consumption of popular Computer Vision and Natural Language Processing models.

Akanthas - Software Development Intern (June 2021 - July 2021)

Followed Agile methods during my internship at Akanthas, where I played a key role in developing a Python backend for the website and deploying a Computer Vision model on the Azure platform while respecting our data privacy constraints.
Demonstrated adaptability and collaboration within a fast-paced development environment of a young start-up.

CEA Cadarache - Intern Student (Nov. 2015 - Dec. 2015)

Introduction to scientific research and project management on the construction of the Jules Horowitz Reactor for nuclear and medical research at CEA Cadarache.

Education

Sep. 2021 - Feb. 2024	**MSc in Applied Mathematics, focus on AI**	INSA Toulouse

Acquired valuable mathematical and statistical foundations of ML, AI, and Data Science with a focus on:
Statistics | Optimization | Data-Driven Problem Solving | Finite Element Modeling | Meta-Modeling | Finance and Actuarial science

Sep. 2020 - Feb. 2024	**MSc in Computer Science, focus on AI**	ENSEEIHT

Developed strong technical proficiency in artificial intelligence, covering diverse areas:
Machine Learning | Deep Learning | Signal Processing | Scientific Computing | High Performance Scientific Computing | Cloud platform | Graph Theory | Reinforcement Learning | Big Data.
Communication, management and English skills.

Sep. 2018 - June 2020	**MPSI-MP***	Lycée Masséna

Intensive preparatory classes for entrance competitions to engineering schools. Focus on mathematics and physics with computer and engineering science.

Extra-Curricular Activities

Exploration	Currently planning a month-long inter-rail trip in Eastern Europe
Improv.	Improvisation theatre in French and English.
Hobbies	Piano, fantasy novels, video games, badminton.

May 3, 2024   **Alexandre Personnic**