VIN Charles
Junior Data Scientist internship

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Education

22-24 **Master's Degree in Computer Science - Specialisation Data, Machine Learning, and Knowledge (DAC)**
Sorbonne University - Paris

19-22 **Bachelor's degree with highest honour, Mathematics and Computer Science applied to Cognitive Science**
University of Lille - Lille

Experiences

23-S2 **Research project - Explainable insects classification** - *ISIR - Paris*
- Development of a convolutional neural network for insect classification.
- Use of gradient-based approaches and the LIME and SHAP frameworks.
- Takeover, adaptation and documentation of the project.
- Experiences monitoring and evaluation of different models with WandB.

Pytorch | CNN | LIME | SHAP | WandB

23-S2 **Project - Neural Network DIY**
- Development of a neural network library entirely in Numpy.
- Implementation of essential modules (linear layers, 1D convolutions, etc.) for creating, training and evaluating neural networks.
- Performance optimization through advanced use of Numpy for efficient computation.

Python | Numpy

22 Summer **Intership – Filboost & SCALab Laboratory** - *Lille*
- Processed raw EMG/ECG signals and experimental task data.
- Employed data visualization techniques.
- Utilized statistical tests to uncover experimental group differences.
- Delivered presentations and reports to communicate findings effectively.

Pandas | Seaborn | Signal processing | Statistical tests

Skills

Machine Learning	SVM, deep neural networks, gaussian process, unsupervised method, bayesian network, decision tree, RNN, GNN, eXplainable AI (LIME, SHAP, counterfactuals)
Computer Vision	Image Classification, vision transformers, GANs, segmentation & detection, diffusion models
Databases	SQL, XML, JSON, distributed databases
Mathematics	Statistical learning, convex optimization (from Master opening courses), decision statistics, linear programming, signal processing
Programmation	Python (PyTorch, Scikit-Learn, Seaborn, Pandas, Numpy, NLTK, OpenCV), R, MATLAB, web front-end (React, Svelte)
Other	(Arch) Linux, organization using Notion, LaTeX, Git, Docker, Figma, Photoshop, Premiere
Languages	English C1 (2022 - TOEIC - 955/990), French (native)

Miscellaneous

Interests	DIY Project: portable smart TV, smart plant, portable secondary monitor, 3D-Print, ... Plants, gardening et resilient living. Cooking: meal prepping & home cooking.
Sports	Running, climbing, bivouac.
Extra work	Seasonal jobs, volunteer work: electronic music festivals and parties.
References	References on request