VIN Charles Junior Data Scientist internship

Education

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