PIERRE OUANNES

DATA SCIENCE STUDENT

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I'm an Ecole Centrale de Lille student looking for _a summer internship in Data Science and Machine Learning, starting on July, 1st._

Skills

MACHINE LEARNING
Deep Learning
Computer Vision
NLP
Data processing

PYTHON LIBRAIRIES
pandas
NumPy
PyTorch
fastai
TensorFlow
sk-learn
matplotlib
seaborn

OTHER PROGRAMMING LANGUAGES
C
MATLAB
HTML/CSS
Java

LANGUAGES
French (mother tongue)
English (fluent, C1 level)
Spanish (beginner)
Mandarin (beginner)

Education

fast.ai course: Deep Learning for Coders, part 1 & 2 — Oct. 2018 to Current

I've learned about Neural Net architectures like CNN (ResNet, U-Net), RNN, SGD, and how to train and fine-tune them, for instance with Adam, momentum, learning rate annealing or one cycle policy.
I've worked on deep learning projects for the course, involving image classification, image regression, object detection, image segmentation, and NLP problems.
During this course, we used mainly PyTorch with the fastai library on Jupyter Notebooks.
I'm also a contributor to the fastai open source library (8 commits so far).
Following part 1 of fast.ai, I did several projects on my own like a food classifier, a face emotion classifier, and I'm currently working on a OCR model using the RetinaNet architecture for Object Detection. Moreover, I've recently started blogging about coding and Machine Learning on my personal website (pouannes.github.io).

Stanford MOOC: Machine Learning — Sept. 2018 to Oct. 2018

I learned about Supervised Learning methods like linear and logistic regression, neural networks and Support Vector Machines.
Unsupervised Learning was also covered, mainly with K-means clustering, Principal Component Analysis and Anomaly Detection.
Following that MOOC, I decided to go further in Deep Learning by taking the fastai course.

Ecole Centrale de Lille — Sept. 2017 to Current

I'm enrolled in Data Sciences courses with lessons in a variety of subjects like mathematics, scientific computing , signal processing, and Machine Learning.

Preparatory classes, Lycée Saint-Louis — 2014 to 2017

Mathematics, Physics and Computer Science

Work Experience

Centrale Lille Voltage Racing Team

Team manager — Oct. 2017 to Mar. 2019

I managed a team of 20 engineering students in order to build an electric racing car. Objective: taking part in the Formula Student race in Silverstone, UK. I was also a member of the electronic division.

Centrale Lille Projets, Junior-Enterprise

Engineering Director & Project Manager — Oct. 2017 to Feb. 2019

Project Management in Computer Science and Engineering:
- I drafted and negotiated commercial proposals;
- I was the intermediary between the client and the student implementers assigned to the project;
- I monitored the projects from start to finish.

IEMN (Insitut d'Electronique, de Microélectronique et de Nanotechnologies)

Research Intern — Jan. 2018 to Feb. 2018

Internship at IEMN, a CNRS research center in Micro and Nanotechnologies. I made and characterised micro bubbles to which magnetic nanoparticles were attached. I also built custom software with MATLAB to automatically detect and classify the sizes of the micro bubbles on images taken with an optic microscope. Applications of those magnetic micro bubbles are mainly in targeted drug delivery systems.

Activities

I've been swimming and playing tennis for about 15 years. I'm also sailing in a team every summer.

I love learning about a variety of subjects; for example I completed online courses on biology, philosophy and economy.

Volunteering

Cheer Up! · Volunteer — Sept. 2017 to Dec. 2018

I visited young patients with cancer and I helped them to carry out projects that are important to them, like for example going to Japan Con in Brussels, or attending a Football match.