

LÉO NICOLETTI

SENIOR DATA SCIENTIST

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I am a data scientist and research engineer based in France (near Lyon). I have a strong interest in all AI-related fields. I graduated from the Grenoble Institute of Technology (Ensimag) in 2016 and have been working as a research engineer, a full stack developer and a data scientist since.

WORK EXPERIENCE

- Since 2020 **Senior Data Scientist**, *Atos Big Data & Security (ex-Bull)*, Grenoble.
Machine learning physical dynamics for accelerating numerical simulations. Coupling neural networks inference engines with numerical solvers on HPC clusters. State-of-the-art *ML for science* deep neural networks.
- 2016 - 2020 **Data Scientist**, *Situ8ed*, Grenoble.
Extracting DSP features to provide context-aware, high-level semantic informations in embedded devices. Online decision making algorithms. Building and maintaining a high-disponibility microservice architecture to process user data for the AdTech (GDPR-compliance) with back and front-ends. Data visualization dashboards.
- 2016 **Master thesis**, *SAP SE*, Germany.
Learning to rank strategies of investment. Machine learning to optimize portfolios on the distributed/in-memory SQL engine SAP HANA Vora.

EDUCATION

- 2015-2016 **Research Master**, *ENSIMAG*, Grenoble.
Research-oriented Master 2. Applied statistics, Machine Learning and Data Science, Convex optimization, Stochastic calculus for finance. Grenoble INP, IM²AG - MSIAM program (Master of Science in Industrial and Applied Mathematics).
- 2013-2015 **Engineering school**, *Grenoble Institute of Technology - ENSIMAG*, Grenoble.
Two years with a strong emphasis on software development (C/C++, Java, functional languages, MapReduce / Big Data...), Applied mathematics, Statistics, and Deep Learning.
- 2011-2013 **Preparatory class**, *Lycée Pierre de Fermat*, Toulouse.
Two-year intensive program preparing for the national competitive exam for engineering schools (*Grandes Écoles*). Major in mathematics, minor in physics and engineering. Algebra, analysis, geometry, topology, optics, electromagnetism, mechanics, chemistry... MPSI/MP

SKILLS FOR DATA SCIENCE

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|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| Data Science | Deep Learning, Statistics, Reinforcement Learning, Learning to Rank, CNNs, U-nets, autoencoders |
| Optimization | Bayesian optimization (Gaussian processes, Stochastic Variational Inference...), Numerical methods, Gradient-based methods, Hyperparams optimization |
| Programming | Python 3.x, TensorFlow 2.x, PyTorch, numpy/pandas, Java/Scala, parallel computing, distributed computing |
| Engineering | Cloud (GCP), MLFlow, HPC clusters, containerization (Docker, Kubernetes) |
| Misc | Unix OS, DevOps for CI (Jenkins, git, monitoring...), Agile methodology |

PERSONAL INTERESTS

I practice mountaineering, rock-climbing and martial arts. I have a specific interest for history, cultures and languages. I speak fluent French and English. I also have a special interest for linguistics, especially the Germanic and Romance language families. As a side project, I worked on a comparative linguistics web app.