



Nathan NOUGUÉ

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Address: 6 Bd de Belleville, 75020 PARIS (France)

WORK EXPERIENCE

Data Scientist, Fraud detection, Paris, France

DGDDI - French Customs [31/08/2019 – Current]

Data-driven customs innovation service. Developing data's usage for the French Customs, in particular in a fraud detection dimension. Service integrated to the SARC (National Targeting Center). Interacted with Customs fraud analysts on a daily basis. Size: 7 employees.

- Responsible for the realization of data uses cases in Agile environment: from collecting needs and specifications, to the Proof of Concept (POC) phase and to the industrialization.
- Performed data analysis tasks in Python and Spark for fostering fraud targeting.
- I create data reports that facilitate tracking and analysis of customs flows: types of products cleared by origin, destination, list of major importers, exporters
- I also contributed to the progressive team structuration and animation (thinkings on the Data Science Stack, technical watch, animating weekly technical review, etc...).

AI Uses cases :

- Machine learning for fraudulent transaction detection in the Detax Information System
- Experimenting Deep Learning methods for Multivariate Time Series to detect shift in clearance behaviors
- Detecting undervalued imports using linear regression

Junior Analytics Consultant, Paris, France

VELTYS - Strategy consulting firm in Economics and Data Science [31/08/2018 – 30/09/2019]

Enrolled as a Junior Analytics consultant, I performed various for client in the public and private sector.

- Drafted technical reports and slides
- Performed technical analysis, dataviz in R, STATA on a tight schedule

Data Science Intern, Amman, Jordan

UNHCR - Cash Based Intervention Team [31/03/2018 – 31/08/2018]

UNHCR, the UN agency for refugees, uses cash-based interventions to provide protection, assistance and services to the most vulnerable. Cash and vouchers help the displaced to meet a variety of needs. Cash-based intervention team is responsible for allocating resources to those who are most in need.

- Contributed to the sampling's design and questionnaire design of the refugee Population Survey in Jordan
- Creation of a dashboard on cash delivery with PowerBI
- Research project : Comparison of machine learning models against regular proxy mean tests to assess vulnerability (PMT)

EDUCATION

Engineering Degree - Statistics

Ecole Nationale de la Statistique et de l'Analyse d'Information (ENSAI), 1 Rue Blaise Pascal, BRUZ [31/08/2015 – 31/08/2018]

- Machine learning : logistic regression, trees, Boosting, Bagging, Stacking
- Statistics : Regression, High-Dimensional, Non-Parametric, Computational Stat
- Econometrics : Panel Data, Treatment Effects, Tests, Spatial Models, Latent Variables
- Specializations :

- Health : Mixed Models, Meta-Analysis, Bayesian Statistics, Clinical Trial Design
- Territory : Spatial Econometrics, Network Analysis, Survey Design

Master Degree in Economics (ENSAI Dual Degree)

Aix Marseille School of Economics (AMSE), 5/9 Bd Maurice Bourdet - 13001 MARSEILLE [31/08/2017 – 31/08/2018]

Preparatory Class - ENS Cachan D2 (Maths, Economics)

Lycée Ozanne, 9 Rue Jean-Baptiste Merly 31000 TOULOUSE [01/09/2012 – 01/09/2015]

DATA SKILLS

Data Cleaning and querying languages

Spark / Python / R / SQL

ML and Deep Learning Frameworks

Tensorflow / Pytorch / Scikit-learn

Dataviz

Streamlit / Tableau / PowerBI / Bokeh

Other tools (DE, DevOps, No Code)

Dataiku DSS / Kubernetes / Apache Airflow / Docker

HOBBIES AND INTERESTS

Triathlon

Vice President of the ENSAI student Union (2016)