

- mine.nicolas@gmail.com
- % nicolasmine.com
- ★ 1 chemin de Zoufftgen 57330 Volmerange-les-Mines
- □ Open to remote work
- 0660379354

Languages

French

English

Assets

Rigor / Organization

Rigor is an important part, both in my work and in my hobbies.

Curious / Self-taught

I really like to learn new things. I constantly seek to renew myself.

Interests

Programming

Sim Racing

Motorsport

Social networks



https://stackoverflow.com/users/ 8044652/nicolas-m

in @nicolas-mine

@Coni63

Nicolas MINF

Data Scientist / Python Developer

About me

Being passionate about programming for more than 10 years, I have developed from personal projects, training and at work a wide variety of skills ranging from Data Science to Web and software development.

My main interests are Data Analysis / Data Science but also Python and web development.

Work experience

Data Analyst

Since June 2021 Editus Kayl, Luxembourg

Analysis of mobility data provided by POST telecom on their **Big Data** platform using **pySpark** (**approximately 1 billion records per month**). Realization of calculations, analysis and preparation of aggregations for the rendering part done in Power Bi by the Data Engineering team.

- Realization of several preprocessing algorithms on the data (enrichment, calculation of routes, determination of the means of transportation, determination of the places of residence or work, extrapolation of the market share of POST in the country).
- Use of Machine Learning when necessary (mostly unsupervised learning).
- Realization of multiple deliverables with an analysis of visits / visitors present in a given area using the telecom antennas information.
- Analysis of mobility at the macro level in the country as well as their modes of transport when possible.
- Working mainly on **dataframes** and use of **RDDs** or **UDFs** when required.
- During R&D phases, tests of algorithms from publications.

Side missions:

- Some data engineering tasks such as integration of the cadastre, enrichment of cell data with the cadastre...
- Some internal POC such as an analysis on the churn, automation of controls...

Digitization Specialist

From January 2019 to June Husky Injection Molding Systems Dudelange, 2021 Luxembourg

Development of tools in Python:

- Implementation of APIs using **Django-REST-Framework** (POC & Prod). 4 different APIs for around 40 endpoints.
- Realization of a site as POC (Front: Jquery + Bootstrap & Back: Django)
- Industrialization of the site after customer validation (Front: **Angular** + **Material** & Back: **C#**)
- Development of 6 parsers to extract data from Excel files
- Automation of dimension extraction on 3D models based on profile analysis
- Automation of some Excel using Machine Learning
- Support other teams on data analysis
- Use of repository (**DevOps Repos** and **CICD Pipelines**)
- Creation of libraries of these codes for maintenance (about 20k LoC with tests and Code Coverage, 10 repos)

Working in Agile method with the Scrum framework

Designer Industriel

From October 2014 to January Husky Injection Molding Systems Dudelange, 2019 Luxembourg

- Design of plastic injection molds (approx. 80 projects / year)
- Participation in the coordination of projects
- Development of tools to automate certain tasks (5 tools implemented).

Computer skills

Git

Standard use with branches and pipelines

Azure DevOps

Use of DevOps for the Agile method (Boards) but also Repos, Wiki and Pipelines

MS Office

Mastery of office suite tools including VBA macros

Education

Master of Data Science

From September 2017 to February 2018 Openclassrooms & Centrale Supelec Online This course consists of 8 projects addressing different topics:

- Data mining
- Recommendation system
- Prediction on time series
- · Customer segmentation
- Extraction of subjects (Topic Modeling),
- Image preprocessing and classification

A technology watch topic was also done on Recurrent Neural Networks, more specifically the implementation and testing of the "Quasi Recurrent Neural Network - QRNN" using Convolutional Neural Networks)

Finally, participation in a Kaggle competition is requested. The chosen topic was image segmentation with cell detection on medical images.

Mechanical Engineer

From September 2010 to July 2013 IFMA Clermont-Ferrand, France School of Mechanical Engineering. Specialty Machines, Mechanisms and Systems

Additional education

TensorFlow Developer Certificate

2020 Google Online

This certification requires knowledge of creating models using TensorFlow 2.X. During the assessment, you are asked to solve different problems (5 in a time limit of 2 hours) requiring either computer vision (CNN), time series forecasting (RNN) and natural language processing (Embedding + FCNN).

Intelligence Artificielle et Algorithmique

Since 2010 Codingame Online

Codingame is a site that offers puzzles that must be solved using algorithms. There are different types of puzzles ranging from single-player games to bot fights to optimization competitions.

- Current rank: 646th / 651,000
- Favorite Mode Optimization (51th / 32,500)
- Over 350 solved puzzles & 500 CoC

Skills

Python 3.X

10+ years of programming (data, web-backend, Scripting). Advance knowledge of libraries like numpy, pandas, matplotlib, sklearn, fbprophet, pyspark, folium

Javascript / TypeScript

Important use of JavaScript at the beginning. I used **TypeScript** more recently while building sites with **AngularJS** and **React**.

C#

Ability to script. Comfortable with the basics but little experience in software dev or backend

Databases

Classic knowledge of querying (CRUD) on SQL (**SQL Server**), NoSQL (**MongoDB** / **CosmosDB**) and Distributed (**HBase**)