



Summary

I am a Data Engineer / Analyst.
As a Data passionate, I enjoy automating and deploying web applications for Data Analysis.
I also like to draw, write short narrative texts/poems, read, go for a run, travel to meet people and discover new places.

Education

2020 | Master's Degree
Applied Mathematics and Computer Science
Option : Statistics
UNIVERSITY OF LILLE (FRANCE)

2017 | Master's Degree
Econometrics and Quantitative Finance
UNIVERSITY CHEIKH ANTA DIOP (SENEGAL)

2011 | Baccalaureate
Scientific option
COURS SACRE-COEUR (SENEGAL)

Languages

| | |
|---------------------|---------------|
| FRENCH | ● ● ● ● ● ● ● |
| ENGLISH (B1 – CECR) | ● ● ● ● ● ○ ○ |
| SPANISH | ● ● ● ○ ○ ○ |

Work Experience

Ph. D. student in Applied Statistics

Institut Montpelliérain Alexander Grothendieck (IMAG)

Montpellier University | France

Oct. 2020 to present

- Propose a Machine Learning based methodology to automate seafloor geomorphology mapping.
- Communication through seminars, international conferences, colloquia, ..., to share the results of my research.
- Develop skills around ethics and reproducibility in research, Data management, High Performance Computing (HPC), R packages development, etc.
- Teach Statistics to university students.

Spatial Data Analyst (intern)

Lille University | France

Feb. - Aug. 2020

- Data wrangling : Data cleaning, Missing values handling, Feature engineering.
- Exploratory analysis: Univariate / bivariate / Multivariate analysis.
- Dimensionality reduction : Factor Analysis (PCA, NMDS, etc.).
- Spatial data analysis: Spatial interpolation (Kriging, IDW, Regression Kriging, spatial GAM, etc.), Clustering.

Sales Advisor

Premium Contact Center International | Senegal

Jun. 2016 - Jun. 2017

- Improve brand awareness.
- Support for the use of the brand's products and services.

Key projects

- Creation of RShiny applications for quantitative data analysis.
- Development of a R package for spatial data analysis and visualization.
- Creation of a website for event equipment leasing.
- Creation of VBA macros to customize cover letters templates generation.



SKILLS

❖ Data

- Data mining
 - Extraction, cleaning, feature engineering
 - ETL – SSIS (Sql Server)
 - R: tidyverse, dplyr, stringr, etc. | Python: Numpy, Pandas, SciPy.
 - Exploratory analysis
 - Univariate / Bivariate / Multivariate analysis, Visualization, Reporting
 - Tableau, RShiny, Flexdashboard, R: FactoMiner, ggplot2, plotly, etc. | Python: Matplotlib, Seaborn.
 - Machine Learning
 - Regression, Classification, Dimensionality reduction, Clustering
 - R: caret | Python: Scikit Learn, TensorFlow.
 - Big data
 - High Performance Computing (HPC)
 - Cluster MESO@LR.
 - Parallel computing
 - R: Parallel, Multidplyr.

❖ Programming Languages

- R, Python, SAS, SQL, VBA, HTML, CSS, PHP, JavaScript, Bootstrap.

❖ Softwares / IDE

- RStudio, Jupyter Notebook, Azure ML, Anaconda, Git, Github.
- Tableau, Gretl, Eviews, Stata, GeoDa
- Excel, PowerPoint.

❖ Databases Systems

- MySQL, DB Browser, PostgreSQL, Access, SQL Server, PhpMyAdmin.



CERTIFICATES

- SQL for Data Science
- SAS programming
- Python programming
- Machine Learning with Scikit Learn
- R Package development