Summary

As a Data passionate, I enjoy developing and deploying web applications for Data Analysis.

During my doctoral studies, I deepened my skills in machine learning and quantitative communication.

I also like to draw, write narrative texts, 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, etc 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, dyplr, stringr, etc. | Python: Numpy, Pandas, SciPy.
- Exploratory analysis
  - Univariate / Bivariate / Mutivariate 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, Multidyplr.

❖ **Programming Languages**

- R, Python, SAS, SQL, VBA, HTML, CSS, PHP, Java Script, 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