Summary

I am a Data Engineer at the end of a Ph. D. thesis in Biostatistics.

Passionate by Data Analysis and web development, I enjoy programming and automating routine tasks on web interfaces. Last 03 years, I have worked on spatial analysis of seafloor data. I have proposed Machine Learning based methodology and algorithms for geomorphological mapping.

Education

2020 | Master's Degree

Applied Mathematics and Computer Science UNIVERSITY OF LILLE (FRANCE)

2017 | Master's Degree

Econometrics and Quantitative Finance UNIVERSITY CHEIKH ANTA DIOP (SENEGAL)

2011 | A-level

Scientific option

COURS SACRE-COEUR (SENEGAL)

Languages

FRENCH

ENGLISH (B1 - CECR)

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SPANISH

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❖ Machine Learning

- Data wrangling
- Cleaning, Missing data and outliers handling, feature engineering.
 - R: tidyverse, dyplr,, stringr, etc. Python: Numpy, Pandas, math.
- Explanatory analysis
- Univariate / Bivariate / Mutivariate and Correlation analysis, Visualization.
 - R: FactoMiner, ade4, ggplot2, plotly, etc. | Python: seaborn, Matplotlib.
- Supervised / Unsupervised Learning -Regression, Classification,

Dimensionality reduction, Clustering

R: caret | Python:Scikit Learn, Scipy

Big data

- High Performance Computing (HPC)
- Parallel computing
 - Parallel, Multidyplr
 - **❖** Programming Languages
- R, Python, SAS
- SOL
- VBA
- LaTex

❖ Softwares / IDE

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

❖ Databases Systems

- MySQL, DB Browser, PostgreSQL
- Access
- SQL Serv

CERTIFICATES

- Xampp PhpMyAdmin
 SOL pour la Data Science de A à Z (analyse de data réelles) SAS PROWIED AG WELD PIMESTENTIALS
 - * HTIMLE GSSmRHPinlersa Script-Beotstrap
 - * Machine Learning with Scikit Learn
 - * R Package development

Work Experience

Ph. D. student in Biostatistics

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.
- Explanatory analysis: Univariate and bivariate and correlation analysis.
- Dimensionality reduction: Factor Analysis (PCA, NMDS, etc.)
- Spatial data analysis: Spatial interpolation (Kriging, IDW, Regression Kriging, Clustering, etc.)

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

Hobbies

I like to draw, write short narrative texts/poems, read, go for a run, travel to meet people and discover new places.