Paul FAYE | Data Engineer/Analyst   📍 Montpellier, France   ✉ latsoufa@outlook.com

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 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.
- 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

❖ **Machine Learning**
- Data wrangling
  - Cleaning, Missing data and outliers handling, feature engineering.
    ➢ R: tidyverse, dyplr, stringr, etc. | Python: Numpy, Pandas, SciPy.
- Explanatory analysis
  - Univariate / Bivariate/ Mutivariate and Correlation analysis, Visualization.
    ➢ R: FactoMiner, ade4, ggplot2, plotly, etc. | Python: Matplotlib, Seaborn.
- Supervised / Unsupervised Learning – Regression, Classification, Dimensionality reduction, Clustering
    ➢ R: caret | Python: Scikit Learn, TensorFlow.

❖ **Big data**
- High Performance Computing (HPC)
    ➢ Cluster MESO@LR.
- Parallel computing
    ➢ Parallel, Multidyplr.

❖ **Programming Languages**
- R, Python, SAS, SQL, VBA, LaTeX, 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.
- Xampp, PhpMyAdmin.

🎖 CERTIFICATES

❖ SQL pour la Data Science de A à Z (analyse de data réelles)
❖ SAS PROGRAMMING 1 : ESSENTIALS
❖ Python 3 : Formation intensive à la programmation
❖ Machine Learning with Scikit Learn
❖ R Package development