GARBA Moussa, PHD

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Nationality : French, Nigerien

Date of birth: 01/01/1983

PROFILE

- ☐ Data scientist with demonstrated experience in the areas of data analysis, prediction, risk management, quantitative modelling, data collection.
- ☐ 7 + years' experience ********

EXPERIENCE

Data scientist   **March 2020 –**

Association loi 1901 *SLD - CSVI, Paris, France*

- Implementation a virtual and real-time intelligent health for recommendation post COVID-19.
- Writing a specification
- Patient data collection and epidemiology data: API programming
- Web design
- Development algorithms for classification

Data scientist   **July 2019 – January 2020**
Axionable*, Paris, France*

- Natural Language Processing
- Fragility detection (sowed target)
- Recommender system
- Collected categorical and numerical information from diverse sources
- Used AdaBoost, Catboost, RUSBoost algorithms to analyze and solve complex business problems
- Algorithm deployment

Freelance data scientist   **January 2019 – June 2019**
DataStartupAfrican*, Paris, France*

- support companies in their digital transformation.
- Writing of specifications.
- Text mining (kaggler)

Consultant R&D Data Scientist and machine learning   **April 2018 – January 2019**
e-Qual, Poitiers, France

- Set up a data warehouse (Time Series Database) linking the various external data sources.

- Writing of specifications
- Design and implementation of a datalake architecture
- Data collection
- Development of prediction models and anomaly detection on time series data
- Development and implementation of algorithms user defined functions.
- Evaluation of the performance of each forecast model.

Data Scientist   **September 2016 - April 2018**
GREQAM, Marseille, France

- Data acquisition, wrangling, exploration and prediction (Pandas, Numpy, Scipy, scikit-learn, stat models …)
- Quantitative technique to summarize, to aggregate the variables (data analysis using statistical and graphical techniques)
- Model building, model evaluation and model deployment
- Data visualization: Visual graphs, plotting maps, reports and PowerPoint presentations.
- Python environment setup: Python for data science.

Teaching assistant   **2016 – 2018**
Faculté des Arts, de Lettres, Langues et sciences humaines, Aix, France
- Macroeconomic
- Micro-economic.

Research engineer teaching assistant
2014 – 2016
School of Economic and Business of Nice, ISEM-Nice Sophia Antipolis, Nice, France
- Macroeconomic and Micro-economic.
- Statistic and Econometric.
- Data analysis
- Data collection and wrangling

Junior Consultant Risk analyst   **2011 – 2012**
African Development Bank, Tunis, Tunisia

- Automation and improvement of internal reporting tools based on Excel,
- Development of a support tool for portfolio management using VBA for Excel,
- Aided in producing ratios for the monitoring od bank's own funds,
- Production of performance reports for managed own funds,
- Assistant in the drafting of the report on capital adequacy for the bank's different risks (sovereign and non-sovereign risks, treasury risk, market risk and operational risk) under Basel II (Internal Based Rating approach),
- Analysis of credit ratings of borrowers and private projects.

EDUCATION

Post doctorate in computing programming and data science   **2018**
University of Aix-Marseille

PhD in economic science   **2016**

University of Nice Sophia Antipolis
Thesis: « Analysis of the prudential approaches of bank risk management*: Some econometric analysis on the African Banks* »

Master's in finance   **2009**

SKILLS

- ☐ **Operating Systems:** Linux, Windows, macOS, Debian

- ☐ **Statistical tools :** Stata, R, Epi Info, Eviews, ArcGIS
- ☐ **Programming languages:** Python, R, Java
- ☐ **Markup languages:** XML, HTML, LaTeX, Django, Flask-RESTFul, Flask-SQLAchemy
- ☐ **Azure Microsolft :** Databricks, Pyspark & HiveSQL
- ☐ **Databases:** SQL, MySQL, MongoDB, Oracle, Influxdata-TICK
- ☐ **Other:** Jupiter Notebook (IDLE), RabbitMQ, Telegraf, kapacitor, chronograf, InfluxDB
- ☐ Knowledge of and experience with different Machine Learning techniques and tools Risk solutions, Stress testing on bank data
- ☐ Kaggle, Anaconda, text mining, NLP, devpost
- ☐ **Word Heath Organization certification**: Simulation Exercise Management (Introduction), Working in WHO's Incident Management System, Introduction to Go.Data –Field data collection, chains of transmission and contact follow-up
- ☐ **EUvsVirus Hackathon**: https://devpost.com/software/medilinkup-ehealth
- ☐ **Quarantine Hackathon Top 15** : https://github.com/garbamoussa/MediLinkUp
- ☐ **Datathon MIT COVID-19 Challenge winner top3:** *Reopening of Super-Spreader Businesses and Risk of COVID-19 Transmission* https://github.com/garbamoussa/Reopening-of-super-spreader-businesses-and-risk-of-COVID-19-transmission-

LANGUAGES

French (native)

English (intermediate)

PERSONAL INTERESTS

Traveling • Modern and contemporary art • Learning new languages and machine learning methods.

Kaggle link: https://www.kaggle.com/garbamoussa
Zindi link : https://zindi.africa/users/moussagarba
GitHub : https://github.com/garbamoussa
LinkedIn : https://www.linkedin.com/in/dr-garba-moussa-3559a73b/

Portfolio: https://sites.google.com/view/medilinkup/team