Benjamin-Ousmane M'Bengue

Software Engineer (Data science & IA)

- penjamin-ousmane.mbengue@hotmail.com
- https://github.com/Benjamin-Ousmane
- nttps://www.linkedin.com/in/benjamin-ousmane-m-bengue-61a8a8205

Skills

Programming

Python, Typescript, Javascript, Html, Css, SQL

App development

Streamlit, React, Angular, Firebase

Data science & IA

Pandas, Scikit-learn, TensorFlow, Hugging Face

Data visualization

D3, Altair, Matplotlib

Education

January 2018 - May 2023

Polytechnique Montreal (Canada, QC)

Bachelor's Degree in Software Engineering (*data science and artificial intelligence*)

September 2014 - July 2017

Lycée Joseph-Marie Carriat (France, 01)

Diploma of the General Scientific Baccalaureate

Sports Experience

Grappling

Tristar Gym Montreal

Football

5 years at Football Bourg-en-Bresse Péronnas 01

Football referee

CEPSUM leagues

Personal documentation

Podcasts (Peter Attia, Andrew Huberman, Mark Bell, Micheal Gundill), methods (ATG for coaches, Weck method), books, scientific papers, etc.

Summary

- ✓ Skills in web application development
- ✓ Good understanding of data science principles and machine learning models (NLP, data mining, time series forecasting)
- ✓ Knowledge of the software development process and group management (agile methods, git)
- ✓ Strong interest in research and data analysis, particularly in the field
 of sport and athletic performance

Work History

September 2021 - December 2021

- Junior Data Scientist | Goldspot Discoveries
- ▶ Development of visualization tools for drilling data sets (mineral resource estimation)
- ▶ Development of a web application allowing the analysis of satellite images using spectral band ratios (remote sensing)

Projects

Y Final project in artificial intelligence (Fall 2022)

Prediction of the lifetime of a sensor

- ► **Preprocessing**: denoise signal, remove singular values, detect clusters
- ► Modeling: test and compare different machine learning models for time series forcasting (RNN, LSTM, N-BEATS)
- ▶ Visualizing: build a dashboard with Streamlit
- Tristar gym app (Fall 2022)

Web application for Tristar Gym members build with NextJs, ReactJS and Firebase

Supervisor: hamza.lakrati@outlook.com

Who deserves 2022 Ballon d'Or ? (Summer 2022)

Comparing soccer player performances with D3 charts

Demo: https://benjamin-ousmane.github.io/2022-Ballon-Or-Project