ABOUBAKIRI DIAW

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EDUCATION

Engineer from ECOLE CENTRALE + 20 months of experience

Data Science and Digitalization Option (S2D) - Management Track

Ecole Centrale de Casablanca (ECC)

📅 September 2018 - July 2021   📍 Casablanca - Morocco

Bachelor's degree in Mathematics

Faculty of Sciences, Dakar

📅 September 2014 - July 2017   📍 Dakar - Sénégal

Scientific Baccalaureate

High School LJAA

📅 2014   📍 Port-gentil - Gabon

EXPERIENCES AND PROJECTS

Data Scientist: Asset Liability Management (ALM)

Central Bank of Morocco (Banque Centrale Populaire)

📅 November 2021 - Present   📍 Casablanca, Morocco

- **Constructed an LGD model to estimate losses incurred in the event of a borrower default.**
- Created a Python program to detect 97.17% of operations that were not considered recoveries..
- Developed a Python program to facilitate the detection of recovery cycles in an account.
- Implemented a K-means model from scratch to segment accounts.
- **Set up an ETL process to enrich account data in litigation by 83.67%..**
- **Reduced the daily data extraction time from the trading room by 57% by automating the process..**
- **Configured a Django/PostgreSQL work environment using Docker.**
- **Skills**: Programming, Technical mindset, Data cleaning, Data design, Visualization, Curiosity

Data scientist PFE: Banking product pricing - ALM GE entities

Central Bank of Morocco

📅 April 2021 - October 2021   📍 Casablanca, Maroc

- **Built a pricing tool with python and pyxll for the Large Enterprise (GE) market entity.**
- This tool calculates the following indicators: Internal Transfer Rate (TCI), Net Banking Product (PNB), and Risk-Adjusted Capital Return (RAROC).
- Skills: Programming, Technical mindset, Data design, Visualization, Curiosity

Option project: Development of a lightweight, reliable, and inexpensive pantograph defect detection system suitable for extended networks.

SNCF reseau

📅 December 2020 - February 2021   📍 Morocco & France

- **Improved SNCF-driven network performance by 3% (from 92% to 95% by adopting the image generation approach (GAN model and Random Cropping).**
- TensorFlow, Keras: Resnet50 and VGG16 models
- Skills: Data analysis, supervised and unsupervised learning, deep learning

Data scientist intern: Development of a machine learning model for product recommendation.

Maghreb accessoires

📅 Juil 2020 - Sept 2020   📍 Casablanca, Maroc

- **Deployed an ML recommendation model based on collaborative filtering and content-based.**
- Matrix factorization (PCA, SVD)
- Similarity detection
- Customer segmentation (clustering method)

ABOUT ME

- Seeking a permanent position in Data Science
- Keywords: Data Valuation, Optimization, Performance, and Prediction

SKILLS

Statistics/Probability/Linear Algebra

Machine Learning/Deep Learning

Data visualization: GG Plot, Seaborn, shiny

Analytical mindset

COMPUTER TOOLS

Python[POO, Pandas, Sklearn, Keras, Django]

SQL[MySQL, Postgres]

DevOps[GIT, Docker, Jira]

MS[Power BI/Power Query/ MS Office/ VBA]

Big Data[Hadoop/Spark]

Presentation[Latex, Canvas]

LANGUES

Francais   ●●●●●
English   ●●●●○

COURSES

Introduction to computational thinking and data science
delivered by MITOPENCOURSEWARE
📅 June 2022

CERTIFICATES

Neural Networks and Deep Learning and Improving Deep Neural Networks
delivered by Coursera in partnership with Deeplearning.ai
📅 April 2021

TOEIC : 840/990
delivered by Educational Testing Service (ETS)
📅 March 2021

HOBBIES

Football

Semi-finalist in the Centrale LYON challenge 2019

TEDx conferences

Programming: Website development

Travel: Morocco, France, Gabon