

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**
- Jul 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

Français
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