

# ABOUBAKIRI DIAW

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🔗 github.com/abou96



## 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.**
- **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 2% (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