



# Abiy DEMA

Choisy-Le-Roi, 94600, France

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## EDUCATION



**Centrale Nantes**  
Top French school of Engineering.

Nantes, France

**October | 2018 - 2022**  
M1, Engineering

## PROFESSIONAL EXPERIENCE

**Mangabey**



Paris, France

**January 2023 – Present**

### Data Engineer

- Built data pipeline to execute a thorough data quality assessment workflow. This involved extracting data from Amazon S3, utilizing Polars for comprehensive analysis, storing the resulting insights in Redshift, and establishing seamless real-time visualization in POWER BI through direct query integration.
- Engaged in code optimization to enhance execution speed by transitioning from Pandas to Polars. Leveraged Polars' LazyFrame evaluation for more efficient and rapid code processing.

### Data Analyst

- Designed a data quality verification and KPI analysis structure using Pandas, programmed from scratch, with Amazon S3 as an input and Redshift tables as outputs.

**Fifteen**



Vanves, France

**March 2022 – September 2022**

### Data Engineer

- Built a Twitter-Slack bot, that can filter targeted Twitter accounts' online tweets and sends alert messages to a Slack channel if their tweets were published in the last five minutes containing specific keywords of our preferences.
- Collaborated with the data team to predict the optimum number of bikes to have around train stations of France.

### Growth Engineer

- Engineered a dynamic data extraction system with Python's BeautifulSoup and Selenium libraries, elevating efficiency in LinkedIn profile searches. Seamlessly processing input profiles, the system swiftly captures crucial details: profile names, positions, locations, and LinkedIn URLs.
- Conducted data analysis concerning the existing mobility competitors worldwide & researched about their allocated number of bikes per city, types of technologies they use, operator names and other specifics.
- Led research-based analysis to spot on cities which could be their next potentials to start a bike sharing scheme in France.

**Centrale Nantes**



Nantes, France

**October 2020 – April 2021**

### Image Processing, Computer Vision & OOP Projects

- Analyzed JPEG compression and decompression using SciPy, Skimage & other libraries of Python.
- Led a group of 3 to conduct tests aimed at building facial detection system using C++ OpenCV library.
- Researched on Lena image manipulation using concepts of Object-oriented programming (OOP) such as abstraction, encapsulation, inheritance & polymorphism.

## SKILLS, INTERESTS & LANGUAGES

**Soft skills :** Problem Solving, Curiosity, Critical Thinking, Team Work, Work Ethic & Communication.

**Hard skills:** Python, SQL, AWS, Amazon Redshift, Power BI, C++, MATLAB, Excel VBA, HTML, CSS, Bootstrap.

**Interests & Hobbies:** Football, Reading Novels & Cooking

**Languages:** Amharic – Native, English – Proficient, French – Intermediate (B1)

