Abiy DEMA

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EDUCATION

| **Centrale Nantes** | Nantes, France | **October | 2018 - 2022** |
| Top French school of Engineering. | | Bac +4, Engineering |

PROFESSIONAL EXPERIENCE

| **Mangabey** | Paris, France | **January 2023 – Present** |

Data Engineer
- Constructed Apache Spark ETL based data pipeline solution as part of the **AstraZeneca** project for executing a comprehensive data quality assessment workflow. This included extracting data from Amazon S3, conducting in-depth analysis, storing the derived insights in Redshift, and establishing seamless real-time visualization in POWER BI through direct query integration.
- Orchestrated multiple data pipelines using Apache Airflow within Docker containers for streamlined and efficient data processing.
- Developed KPI analysis framework using Pandas, later optimizing with Polars and achieving a **98%** reduction in execution time.

| **Fifteen** | Vanves, France | **March 2022 – September 2022** |

Data Engineer
- Built data pipeline for 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 Beautiful Soup 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, Apache Spark, Apache Airflow, 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)