Abiy DEMA

📍 Paris, Île-de-France, France
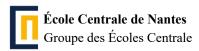
https://www.linkedin.com/in/abiy-dema | 📖 https://abiy-portfolio.pages.dev

06 56 66 16 47 | https://github.com/Haabiy | abiy.dema@gmail.com

🔆 Top Data Engineering Voice

🎓 EDUCATION

École Centrale de Nantes	Nantes, France	**October | 2018 - 2022**
Groupe des Écoles Centrale	Top French school of Engineering	Bac +4, Engineering

💼 PROFESSIONAL EXPERIENCE

Mangabey ⓖ   📍 Paris, France   **January 2023 – Present**

Data Engineer

- Developed the foundational backend and core features of MINE application, a data marketplace, leveraging Flask for handling API requests implementing both Spark-based and non-Spark-based ETL data pipelines to facilitate efficient data processing integrating comprehensive end-to-end testing procedures seamlessly on Amazon EMR cluster.
- Implemented Apache NiFi workflow for real-time data ingestion, seamlessly transferring data from S3 to Redshift.
- Constructed Apache Spark ETL based data pipeline solution as part of **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.
- Conducted data pipeline tests using EC2 instances with customized AMIs (Amazon Machine Images), ensuring thorough validation of pipeline functionality and performance.
- Developed a KPI analysis framework using Pandas, later optimizing with Polars to achieve a remarkable **98%** reduction in execution time, while also orchestrating multiple data pipelines using Apache Airflow within Docker containers for streamlined and efficient data processing.

Fifteen 💥   📍 Vanves, France   **March 2022 – September 2022**

Data Engineer

- Architected a data pipeline for the streamlined transformation of raw inputs into structured outputs, building a dynamic data extraction system with Python's Beautiful Soup and Selenium libraries, thereby elevating efficiency in LinkedIn profile searches. Seamlessly processing input profiles, the system swiftly captures crucial details such as profile names, positions, locations, and LinkedIn URLs, which are then utilized by the Sales department to target individuals when running LinkedIn Ads and campaigns.
- Developed a Twitter-Slack bot named Fiftweety, capable of monitoring recent tweets from specified Twitter accounts. It promptly sends notifications to a designated Slack channel whenever tweets meet our selected criteria, such as those containing specific keywords and posted within the last five minutes.
- Collaborated with the data team to predict the optimum number of bikes to place around train stations of France.

Growth Engineer

- Conducted data analysis concerning existing mobility competitors worldwide & researched about their allocated number of bikes per city, types of technologies they use, operator names and other specifics.
- Enriched lead database through website scraping and automated bot operations.
- Led research-based analysis to spot on cities which could be their next potentials to start a bike sharing scheme in France.

⚙️ SKILLS, INTERESTS & LANGUAGES

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

Hard skills: Python, SQL, Apache Spark, Apache Airflow, Apache NiFi, AWS EC2, Redshift & EMR, Power BI, C++, MATLAB, Excel VBA, HTML, CSS, Bootstrap, Flask.

Interests & Hobbies: Football, Reading Novels & Cooking

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