ABDOU YAYA SADIAKHOU

DATA ENGINEER || CLOUD DEVOPS & MLOPS

CONTACT

✉ sadiakhouyaya738@gmail.com

🌐 **www.abdoufermat.me**

📍 75 Rue Vincent Fayo, 92290

EDUCATION

Master 2 Datascale

Université de Versailles Saint-Quentin
2022-2023

Big Data management

Software Engineer

Ecole Polytechnique Thiès
2017-2022

COmmon Core(2yrs) + ENgineering Cycle(3yrs)

CERTIFICATIONS

Algorithmic: here
Google Cloud Big Data and Machine Learning: here

LANGUAGES

English: B2 (Professional R/W skills)

HOBBIES

Echecs
Football
Animes

WORK EXPERIENCE

Data Engineer

Bank of France   03-2023/09-2023

- Design of a Logging/Monitoring/Alerting standard
  - Implementation of an application log standard in the form of a python package
  - Indexing of multi-source logs on Elasticsearch with Filebeat as agent
  - Dashboard monitoring of IA/Data microservices with KIbana
- DevOps | MLOps
  - Implementation of Docker/Podman container orchestration systems
  - PostgreSQL process automation
  - Migration from Docker to Podman (on RedHat-8)
  - Deployment of Machine Learning/Deep Learning Speech-to-text models
  - Python package unit testing
  - Python package forking (Customization)
  - Implementation of middleware for API Rest
- Web development:
  - Implementation of a chatbot (internal Banque de France) based on Facebook's LLM Llama v2 (Meta) with ReactJS and V
- Microservices
  - Development of Python APIs as microservices using FastAPI, gRPC Python etc.
  - Breakdown of Artificial Intelligence applications into microservices

Web & Mobile Developer

TeamX Group   05-2021/09-2022

- Android native (Java/Kotlin): mobile banking app (Xaalys)
- Vuejs and Nuxtjs developer: microfrontend architecture B2B2C app (Kwely)

INDIVIDUAL PROJECTS

Statistical calculations for the personal cloud(see)

- Explanatory data analysis on GPS data (geolife) with Python packages (Scikit-Learn, Geopy, matplotlib...)
- Determination of home-work routes, ecological routes (bicycle/walking)
- Application of heuristic methods for inferences
- Determining type of transport (walking, cycling, train, bus, etc.)

Inpoda: Social network analysis (see)

- Extraction, analysis and statistics on twitter data with Airflow (Python) + Twitter API
- Development of microservices (SOAP/REST/RPC)
- KIbana Dashboard for metrics visualization

Hadoop Cluster

- Setting up a hadoop cluster with Docker
- Setting up a hadoop cluster with VMs (VirtualBox)

SKILLS

- Python: FastAPI, Django, Flask, gRPC-Python, Pandas, Scikit-Learn, Streamlit
- Docker, Podman, Kubernetes
- Elasticsearch, Logstash, Kibana (ELK Stack)
- Spark, Hadoop
- AWS (EC2, RDS, Load Balancing, IAM, Route53...)
- SQL/NoSQL, RDBMS (Oracle, Postgres)
- Javascript (VueJS, ReactJS)