

# ABDELGHAFOR ELGHARBAOUI

## DATA ENGINEERING STUDENT

Portfolio +212607514544 @ abdelghaforelgharbaoui@gmail.com  
abdelghafor-gh Abdelghafor Elgharbaoui



## PROFESSIONAL EXPERIENCE

### Data & AI Intern

Shiftbricks

June – September 2024 Al Hoceima, Morocco

- Developed an AI Legal Assistant app for browsing and searching legal documents, with chatbot integration.
- Enabled advanced semantic search and citation extraction to improve AI-generated responses and search results.
- Implemented multilingual support to ensure accessibility and usability for users across different languages.

FastAPI LangChain Mongo Atlas Postgres Docker NextJS GitLab

### Backend Developer Intern | Remote

3D Smart Factory

July – October 2024 Mohammedia, Morocco

- Secured user accounts with authentication and role-based access control for the e-commerce microservices platform.
- Developed a real-time notification system to enhance customer engagement.
- Enabled system reliability with advanced monitoring and logging for microservices.

Spring Cloud Kafka MySQL Cloudinary Prometheus Grafana Stack

## PROJECTS

### Moroccan Universities Scopus Analysis

Designed a data-driven solution to analyze academic publications from Moroccan universities using Scopus data. Built a star-schema data warehouse to model documents, authors, journals, and affiliations. Developed an interactive Power BI dashboards to visualize publication trends and insights.

Snowflake Airflow Docker Pandas Power BI DAX AWS EC2

### AI Trends Chatbot

Developed a system to scrape daily AI news and process it through a medalion architecture data pipeline. Powers a chatbot that answers questions about the latest AI trends and developments.

LangGraph Azure Functions Data Factory Databricks Cosmos Terraform

### Real-Time Foot Traffic Monitoring

Implemented a real-time foot traffic monitoring system using lambda architecture and computer vision to provide dynamic insights across different zones.

Spark Kafka HDFS Cassandra Clickhouse YOLO Docker Power BI

### Patent Analysis Platform

Built a comprehensive platform for exploring and analyzing patents in Education and AI, featuring web scraping, data warehousing, and dynamic visualizations.

Flask Spark Postgres Mongo Atlas Power BI Chart.js

## PROFILE

Final year data engineering student at the National School of Applied Sciences of Al Hoceima. Seeking an end-of-studies internship starting in February 2025, ready to bring my skills and energy to innovative projects.

## CERTIFICATIONS

- Machine Learning Specialization [ Deep Learning AI ]

## SKILLS

### Programming Languages

Python Java R PL/SQL C Bash

### Databases

Postgres MySQL Oracle MongoDB Cassandra

### Cloud Data Platforms

Azure Synapse Analytics Databricks Snowflake

### Big Data & ETL

HDFS Apache Spark Apache Kafka Airflow  
Selenium Power BI

### Machine Learning & AI

Scikit Learn TensorFlow LangChain Hugging Face

### DevOps

Linux Git Docker Kubernetes Terraform  
GitHub Actions Prometheus Grafana

### Frameworks

Spring Boot FastAPI Flask NextJS Supabase

## EDUCATION

National School of Applied Sciences of Al Hoceima (ENSAH)

Data Engineer

2020 – 2025 Al Hoceima, Morocco

## ADDITIONAL INFORMATION

- Languages :** English French Arabic
- Community Engagement :** Participated in national events such as MNPC23 (Moroccan National Programming Contest) and MoroccoAI hackathon 2024.
- Continuous Learning :** Committed to staying updated with the latest data technologies and techniques.