ABDELGHAFOR ELGHARBAOUI

DATA ENGINEERING STUDENT

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PROFESSIONAL EXPERIENCE

Data & AI Intern | Remote
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.

`FastAPI` `LangChain` `Mongo Atlas` `Postgres` `Docker` `NextJS`

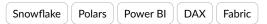### Backend Developer Intern | Remote
3D Smart Factory

📅 Jully – October 2024　📍 Mohammedia, Morocco

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

`Spring` `Kafka` `MySQL` `Docker` `Cloudinary` `Prometheus` `Grafana`

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` `Polars` `Power BI` `DAX` `Fabric`

AI Trends Chatbot

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

`Azure Functions` `Cosmos DB` `Data Factory` `Databricks` `Supabase`

Real-Time Foot Traffic Monitoring

Real-time foot traffic monitoring system using lambda architecture and computer vision, providing dynamic insights across different zones.

`Spark` `Kafka` `HDFS` `Cassandra` `Clickhouse` `Yolo` `Docker` `Power BI`

Patent Analysis Platform

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`

HiringX

Built an AI-powered platform to mimic HR interviews, asking questions based on the candidate's profile and experience. Includes a scoring system that evaluates candidates based on many criteria.

`LiveKit` `Anthropic` `Deepgram` `Azure Speech`

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

`Bash` `Python` `Java` `R` `PL/SQL` `C` `TypeScript`

Databases

`Postgres` `MySQL` `Oracle` `MongoDB` `Cassandra`

Cloud Data Platforms

`Azure Data Factory` `Databricks` `Snowflake`

Big Data & ETL

`HDFS` `Apache Spark` `Apache Kafka` `Airflow` `Selenium` `Power BI`

Machine Learning & AI

`Scikit Learn` `Keras` `LangChain` `spaCy` `LiveKit`

DevOps

`Linux` `Git` `Docker` `Kubernetes` `GitHub Actions` `Prometheus` `Grafana` `Azure`

Frameworks

`Spring Boot` `FastAPI` `Flask` `Next.js` `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.