Omar Ouchchen

Data Engineer — AI & BI Solutions Developer — Data Science

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Profile

Final-year Data Engineering student at **ESI Rabat**, specializing in **Data Engineering**, **Business Intelligence**, and **Applied AI (RAG, NLP)**. Passionate about transforming data into business value, I design **scalable and automated analytical solutions**. Available from **February 2026** for a **4–6 month final-year internship** in Data Engineering, Business Intelligence, or Data Science.

Education

Engineering Degree – Data Science and Knowledge Engineering	*2023–2026*
School of Information Sciences (ESI), Rabat	
Preparatory Classes (Maths–Physics)	*2021–2023*
Scientific Baccalaureate (Mathematics)	*2021*

Professional Experience

Tamwilcom — *PFA Internship: Intelligent Conversational Assistant* — *Jul–Aug 2025*

- Designed and deployed a **RAG-based chatbot** for financial product recommendations.
- Stack: **Python**, **FAISS**, **FastAPI**, **Streamlit**, **MySQL**.
- Results: 89% accuracy, 2.3s response time, 60% of queries automated.

Doosys — *Internship: Data Analysis* — *Jul–Aug 2024*

- Performed text data analysis and built a **semantic search engine** using embeddings.
- Developed **ETL pipelines** and **Power BI dashboards** for KPI tracking.

Academic Projects

RAG System – Retrieval Augmented Generation — *PostgreSQL, FAISS, FastAPI, LangChain*
github.com/ouchchenomar/RAG_sys
Built a **RAG pipeline** combining vector and relational databases for context-aware information retrieval. Enhanced document search precision and semantic understanding.

BI Dashboard – Sales Monitoring — *Power BI, SQL, DAX*
github.com/ouchchenomar/PowerBI_Suivi_Ventes
Designed a BI dashboard with a **star-schema model (Clients, Products, Regions, Sales)** and dynamic **DAX KPIs**. **Impact:** Enabled sales and revenue performance tracking per region and category.

Agricultural Traceability System of Morocco — *Dash, Flask, SQLAlchemy, Blockchain*
github.com/ouchchenomar/tracabilite_agricol
Developed a national web platform integrating **Blockchain** to ensure authenticity and transparency of agricultural data. **Impact:** Full traceability from producers to consumers.

ML – House Price Prediction — *Python, scikit-learn, Pandas, Streamlit*
github.com/ouchchenomar/ML_housse_prediction
Developed a **Random Forest regression model** for real estate price prediction with an interactive web app using Streamlit.

Technical Skills

Languages: Python, SQL, Java, JavaScript, R
Databases: Oracle, MySQL, PostgreSQL, SQLAlchemy, PL/SQL
AI / Data Science: Machine Learning, NLP, RAG, ETL, Statistics, SPSS
Cloud / DevOps: Oracle Cloud, Google Cloud, Docker
BI / Visualization: Power BI, Tableau, Streamlit
Languages: English, French, Arabic, Amazigh

Certifications

Oracle Database Foundations (In Progress) · Machine Learning — Stanford · Google Cloud Fundamentals · Google Data Analytics — Google · Python for Data Science — IBM · Agile Project Management — Google

Activities

- Member of the **ESI Programming Club**.
- **Tizguine Student Council** – organized Data & Cloud workshops.
- Ongoing tech watch on Data Engineering, Applied AI, BI, and Cloud.