

Youssef Bazzaoui

Data Scientist/Analyst

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Profile

Data Scientist with a dual background in AI and Data Science, with experience in private banking, Python development, and freelance AI projects. Skilled across the full data pipeline, from extraction and predictive modeling to deploying AI applications (RAG, LLM, NLP). Tech stack: Python, SQL, Docker, AWS, Power BI. Focused on business impact and production-ready solutions.

Professional Experience

06/2023 – present Paris, France	Freelance Data Scientist Worked on multiple freelance missions for clients in the automotive, and digital services sectors. Notable projects include: • Vehicle Sales Forecasting and Pricing (for Siyalux Luxembourg): Analyzed vehicle sales data across regions and time periods; developed time series models to forecast demand; built a dynamic pricing model based on vehicle features, market demand, and seasonality. • ETL pipeline setup to automate data preparation and report generation (Python, SQL) • Development of an ophthalmology diagnostic assistance app integrating a medical LLM and a RAG system (Python, Streamlit, LangChain)
12/2022 – 05/2023 Luxembourg	Data Scientist Intern <i>Eurobank Private Bank</i> • Extracted, cleaned and structured core banking data via SQL and SSIS to feed analysis pipelines • Automated reports and created performance indicators for business teams
09/2020 – 09/2021 Casablanca, Morocco	Junior Developer <i>Valsesia</i> • Assisted in developing and maintaining the internal stock management and order tracking system (Python, Excel) • Built automation scripts for daily sales reports and data entry tasks

Education

03/2023 Paris, France	Applied MSc in Data Science and Artificial Intelligence <i>DataScienceTech Institute</i>
07/2020 Esch-sur-Alzette, Luxembourg	Master's Degree in Computer Science, Specialization in Artificial Intelligence <i>University of Luxembourg</i> Master's Thesis: <i>Machine Learning-Based Situation Awareness for Autonomous Drones</i> Developed a perception system for autonomous drones: object detection, segmentation, and recognition via monocular camera. Integrated perception and control modules for navigation in dynamic environments.
07/2017 Paris, France	Bachelor's Degree in Mathematics and Computer Science Applied to Social Sciences (MIAGE) <i>Université Paris Nanterre</i>

Skills

Languages & Tools:

Python, SQL, Git/GitHub, Docker, AWS, Power BI, SQL Server Integration Services (SSIS), SQL Server Reporting Services (SSRS)

Machine Learning:

Regression, Classification, Time Series (ARIMA, Prophet), XGBoost, Random Forest, Neural Networks

AI & NLP:

LLM fine-tuning, RAG, embeddings, Vector Search, LangChain, Ollama / OpenAI API / Claude API

Data & Visualization:

Pandas, NumPy, Scikit-learn, PyTorch, Power BI, Matplotlib, Seaborn

Languages

English — Fluent

French — Native/Bilingual

Spanish — Basic

Arabic — Native/Bilingual

Certifications

- Amazon AWS Cloud Computing (In progress)
- Neo4j Certified Professional [↗](#)

Interests

- Football
- Esports
- Travel
- Football Analytics