

Data Scientist with an Engineering Degree in Data Science and hands-on experience building measured RAG systems, time-series forecasting workflows, risk models, and decision-facing applications. Focused on reliable evidence, explainable tradeoffs, and useful delivery.

EXPERIENCE

AI and Data Science Intern Feb-Jun 2026
UBCI

- Built an end-to-end RAG pipeline for public banking content, regulatory publications, and permission-gated validated documents.
- Combined BM25, BGE-M3, FAISS, RRF, and learned reranking; raised Hit@1 from **71.2% to 83.8%**.
- Distilled a MiniLM reranker retaining **82.6% Hit@1** while reducing CPU latency from **27.86s to 1.55s**.

Data Science Intern Jul-Aug 2025
STEG

- Developed time-series forecasting and anomaly-detection workflows for short, noisy hourly network histories.
- Compared SARIMAX, XGBoost, and LSTM with temporal validation and delivered the workflow in Streamlit.

Full-Stack Developer Intern Jun-Jul 2024
Institut Pasteur de Tunis / COSEM

- Built and deployed a responsive Flask platform with authenticated, interactive data dashboards for farmers.

SELECTED PROJECTS

Credit Card Default Prediction

Compared logistic regression and Random Forest on 30,000 public records; tuned the decision threshold and reached **76.0% balanced accuracy**.

Analysis Shiny app

Resume Information Extractor

Created a modular spaCy/NLTK pipeline with deterministic extraction and an LLM fallback for noisy resumes.

Kaggle notebook

EDUCATION

Engineering Degree in Data Science 2023-2026
Higher School of Statistics and Information Analysis (ESSAI)
Completed in 2026

Preparatory Cycle for Engineering Studies 2021-2023
Preparatory Institute for Engineering Studies of Bizerte

TECHNICAL SKILLS

Programming & data

Python, R, SQL, Java, Pandas, NumPy

Machine learning

Scikit-learn, XGBoost, classification, SARIMAX, LSTM, time series

NLP & retrieval

LLMs, RAG, BGE-M3, BM25, FAISS, reranking, RRF

Delivery

FastAPI, Flask, Django, Next.js, Streamlit, Shiny, Docker

Visualization & tools

Matplotlib, Metabase, Git, GitHub, LaTeX

LANGUAGES

Arabic	Native
English	B2 / TOEIC
French	Intermediate