

NOUHA BRIKI

Final-Year Data Science & AI Engineering Student · 6-Month Final-Year Internship (PFE)

Available from January 2027 · Tunis, Tunisia

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PROFILE

Final-year engineering student (Data Science & AI, TEK-UP University) seeking a 6-month final-year internship in Data Science, Machine Learning or Generative AI. At Tunisie Telecom, I designed an intelligent complaint-analysis agent for Revenue Assurance (information extraction from emails, anomaly detection, RAG with Ollama/Qwen 2.5 and ChromaDB). I have also delivered end-to-end ML projects using MLflow, FastAPI and Docker.

EDUCATION

- Engineering Degree — Data Science & Artificial Intelligence · TEK-UP University, Ariana** 2024 – 2027
5th year · degree expected in 2027
- Bachelor's Degree — Embedded Systems & IoT · Faculty of Sciences of Bizerte** 2020 – 2024
Graduated with Highest Honors (*Mention Très Bien*)

PROFESSIONAL EXPERIENCE

- Data Science & AI Intern — Tunisie Telecom** Summer 2026
- Designed an intelligent complaint-analysis agent for Revenue Assurance and fraud detection.
 - Developed an extraction and validation pipeline for emails (MSISDN, DA4, amounts, dates, CRM information).
 - Queried and analyzed business data (SQL, Oracle) to identify anomalies and potentially fraudulent situations.
 - Explored the integration of LLMs, embeddings, RAG and a vector database to support analysis and decision-making.
- Python, SQL, Oracle, Ollama, Qwen 2.5, ChromaDB, embeddings, RAG, Git*
- Software Development Intern — Keystone Groupe** Jul – Aug 2025
- Developed an automated audit report generation tool and integrated it into an existing web application.
- Bachelor's Final-Year Project Internship — Be Wireless Solutions** Feb – Jun 2024
- Developed a peer-to-peer energy trading framework (Blockchain + IoT) and a full-stack real-time analytics dashboard.
- Web Development Intern — COFAT, Tunis** Jul – Aug 2023
- Built a WordPress/WooCommerce e-commerce website with integrated payment and a responsive interface.

SELECTED PROJECTS

- ToxiScan — Toxic Content Detection Platform** 2026
- Complete ML pipeline: preprocessing, MLflow-tracked training, FastAPI API, React interface, Docker Compose deployment.
- Python, scikit-learn, FastAPI, React, Docker, MLflow*
- SmartInvest AI — Market Analysis Support** 2025 – 2026
- Data collection via yfinance and the FRED API, ETL pipelines, PostgreSQL data warehouse, visualization for decision support.
- Python, PostgreSQL, yfinance, FRED API, Git*
- EcoEnergy Insight — Energy Analysis & Forecasting** 2025
- EDA, feature engineering, model comparison and consumption forecasting (evaluated with MAE, RMSE, R^2).
- Python, Pandas, scikit-learn, Streamlit, Plotly*

SKILLS

AI & Data: Machine Learning (supervised/unsupervised, classification, regression, clustering), feature engineering, anomaly detection, Generative AI, LLMs, RAG

ML Tools: Pandas, NumPy, scikit-learn, MLflow, FastAPI, Streamlit, Jupyter, Plotly, Power BI, Ollama, ChromaDB

Data: SQL, PostgreSQL, Oracle, MySQL, MongoDB, ETL, Data Warehousing

Languages & Development: Python, Java, JavaScript, C/C++, React, Django, Flask

DevOps: Docker, Git/GitHub, Linux, Azure

LANGUAGES & EXTRACURRICULAR ACTIVITIES

Languages: Arabic (native) · French (fluent) · English (professional) · German (A1)

Involvement: Head of Robotics — CPU FSB (2023) · HR Manager — IEEE FSB (2022) · Media Manager — Mosaïque FSB (2022) · Active Member — Securinets Tek-Up