

Semer Nahdi

Final Year Big Data - Artificial Intelligence Engineering Student

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Professional Experience

Advocate AI – AI Intern

07/2025 – 10/2025

- Contributed to the development of an AI-powered onboarding agent to assist new clients.
- Developed a voice assistant for sales executives to simulate client meetings.
- Built a platform that aggregates data from multiple CRMs into a centralized graph database.

Medianet – AI-Software Engineering Intern

05/2025 – 07/2025

- Built an AI voice agent for personalized mock interviews.
- Used Next.js, Firebase, and Vapi API to build a scalable, cloud-hosted platform.

MS Solution – Software Intern

06/2024 – 07/2024

- Designed and implemented a secure QR-based payment and transaction system.
- Built the system using ASP.NET, Blazor, and SQL Server, focusing on transaction integrity and performance.

Projects & Hackathons

NLP Fraud Detection System (DeBERTa)

12/2025

- Fine-tuned DeBERTa-v3-base using LoRA adapters for NLP fraud detection across 7 domains.
- Designed a modular training pipeline with domain adaptation.

AI Finance Personal Assistant (Multi-Agent MCP)

11/2025

- Developed a finance-focused multi-agent MCP system for real-time stock and ETF analysis, daily reports, and news retrieval.

Real-Time Stock Market & ETF Analytics Platform

11/2025

- Built an end-to-end ETL pipeline for real-time stock and ETF data processing.
- Created interactive Power BI dashboards for financial analytics and visualization.
- Designed a Next.js web app with real-time streaming and background job processing using Inngest.

Machine Learning User Behavior Analysis

05/2025

- Built a real-time gaze detection system with a custom AI model, achieving 65% accuracy.
- Developed a Next.js web app to monitor user behavior during video playback and generate reports.

Microsoft Anomaly Prediction Analysis

04/2025

- Conducted Forecasting and Anomaly Detection on the Microsoft Malware Prediction dataset.
- Performed data preprocessing, feature selection, and trained Random Forest models to improve predictive accuracy.

Emotion Recognition System

09/2024

- Implemented facial emotion detection using computer vision techniques, achieving 79% accuracy.
- Evaluated and optimized system performance and reliability.

Hackathon "Dive into the Squid Gamers' Arena"

01/2025

- Developed a BERT model RAG chatbot prototype in 12 hours.
- Collaborated with a multidisciplinary team to brainstorm and document the project under tight deadlines.

Hackathon "De l'idée à la startup" – 1st Edition

01/2025

- Prototyped a healthcare app in 72 hours to centralize patient medical data.
- Integrated an AI-powered medication identifier using OCR with 95% accuracy.

Technical Skills

- **AI / ML:** PyTorch, TensorFlow, XGBoost, Random Forest, LSTM, Transformer, NLP BERT, HuggingFace, LangChain, MCP
- **Databases and Big Data:** SQL, NoSQL, MySQL, MongoDB, Firebase, Supabase, Neo4j, ETL, Power BI
- **MLOps and Deployment:** FastAPI, Streamlit, Docker, Git, CI/CD, Vercel, n8n
- **Programming and Web:** Python, Streamlit, Gradio, JavaScript MERN, Next.js, TypeScript, Java Spring Boot, C, C++, C

Certifications

- MLOps, Machine Learning – **365 Data Science**
- Java, Python, JavaScript, Databases – **Certiport**
- Cloud Foundations – **AWS**
- Deep Learning – **NVIDIA**
- IELTS Band 8 (C1) – **British Council**

» Full list available online

Education

Polytech Intl – Tunis, Tunisia Expected June 2026
Engineering Degree in Big Data and Artificial Intelligence

Faculty of Science – Bizerte, Tunisia 2020–2021
Integrated Preparatory Cycle