



MINIAR HEMDEN

AI & Cloud Computing Engineering Student

+216 97 725 171 · hemdenminiard@gmail.com · [linkedin.com/in/miniard-hemden-512a76227](https://www.linkedin.com/in/miniard-hemden-512a76227) · miniard-portfolio.netlify.app

PROFILE

Computer engineering student (ESPRIT, Cloud Computing track) with a dual background in Business Intelligence. Hands-on experience building multi-task AI agents with LLMs (OpenAI API, Ollama, Hugging Face) and agentic frameworks like LangChain, and has shipped 9+ production automation workflows (n8n) for real clients: banking data enrichment, lead-gen pipelines, conversational booking agents. Comfortable across the full stack: Python, FastAPI, RAG/embeddings, containerization, CI/CD and deploying to AWS, Azure, uses GitHub Copilot daily and proactively follows new GenAI models and techniques. Rigorous, curious, results-driven. Trilingual: Arabic, French, English (B2+).

EXPERIENCE

Summer Internship — AI-Based Financial Anomaly Detection

Jun – Aug 2026

Amen bank, Tunis — End-to-end ML pipeline for real-time bank fraud detection

- Simulated a realistic banking dataset using Faker
- Trained a PyTorch autoencoder on normal transactions; threshold calibrated at the 95th percentile; achieved 0.86 AUC-ROC and 65% recall on anomalies across 75,636 simulated transactions
- Built a production-ready system: REST API with FastAPI (4 endpoints), Docker/docker-compose, CI/CD via GitHub Actions (7 pytest tests, automatic push to Docker Hub), and a real-time Streamlit dashboard

Tools: PyTorch, FastAPI, Docker, GitHub Actions, Streamlit, SQLite, scikit-learn, Python

Summer Internship — Multi-Task NLP AI Agent

Jun – Jul 2025

Excellia Solutions, Tunis — Design and development of an intelligent agent for transliteration and PEP profile synthesis

- Analyzed requirements and designed a scalable NLP agent architecture (transliteration + synthesis)
- Developed and deployed the agent with Python 3 and the Ollama API (local LLM); built data-cleaning pipelines for complex JSON datasets; carried out rigorous model evaluation

Tools: Python 3, Ollama API (local LLM server), NLP, JSON, model evaluation

Final-Year Internship (PFE) — BI Solution for ATM Liquidity Management

Feb – May 2024

Attijari Bank, Tunis — End-to-end BI solution for liquidity monitoring and forecasting

- Led business workshops (GIMSI method): KPI definition, multi-source ETL (Talend/SSIS), star-schema modeling, advanced DAX measures, interactive Power BI dashboards
- Built predictive Python/R models (time series) to forecast liquidity demand and optimize replenishment costs

Tools: Talend, SSIS, Power BI (advanced DAX), Star Schema, R Studio, Python, SQL Server

ACADEMIC PROJECTS

Unitum — SaaS Platform + IaaS Infrastructure 2026

1st Place, ESPRIT Bal des Projets · Top 5, EntreprenUp Hackathon 2026 · ESPRIT

- Built an all-in-one platform (Jira + Slack + Notion) with AI: delay prediction (XGBoost), stress-signal detection, optimal team composition; Docker/Kubernetes microservices
- Deployed a full private-cloud IaaS on OpenStack: Terraform IaC, 99.5% SLA target, ML-based resource allocation, observability with Prometheus + Grafana + a Telegram bot

Tools: React, Spring Boot, FastAPI, PostgreSQL, MongoDB, Redis, Docker, Kubernetes, OpenStack, Terraform, XGBoost, scikit-learn

AI Automation & Agent Workflows (n8n) — Freelance Client Work

2025 – 2026

9+ production automation workflows deployed for real clients

- Banking client: hybrid rules + local-LLM pipeline (Ollama, fully on-premise for data confidentiality) to classify and enrich fixed-asset spreadsheet records, with a reconciliation pass against a synonym/corrections knowledge base
- B2B lead-generation agent: end-to-end pipeline pulling leads from Apollo.io, qualifying them via Google Places and website scans, generating personalized icebreakers with GPT, and auto-launching Instantly.io outreach campaigns

Tools: n8n, OpenAI API, Ollama (local LLM), Webhooks, Google Places API, Apollo API, Stripe

TECHNICAL SKILLS

AI & GenAI	Python/PyTorch, OpenAI API, Hugging Face, Ollama (local LLM), LangChain (agentic workflows), LLM fine-tuning, NLP, Deep Learning, multi-agent systems, RAG, embeddings & vector search
Data & ML	scikit-learn, pandas, numpy, R, time series, clustering, anomaly detection, CRISP-DM, Power BI (DAX)
Cloud & Infra	AWS, Azure, GCP, OpenStack, Docker, Kubernetes, Terraform, Prometheus, Grafana, Ansible
Backend & API	FastAPI, Flask, Spring Boot, Node.js, REST APIs, PostgreSQL, MySQL, MongoDB, Redis, SQLite
Frontend	React, Angular — integrating AI models into web products
MLOps & CI/CD	GitHub Actions, Docker Hub, pytest, n8n (9+ automation workflows), Webhooks, SLA monitoring, GitHub Copilot (daily AI-assisted development)
Languages	Arabic (native) · French (fluent) · English (fluent, B2+)

EDUCATION

Engineering Degree in Computer Science — Cloud Computing · ESPRIT, Tunis

09/2024 – Present

Bachelor's Degree in Business Intelligence — High Honors · ESPRIT School of Business, Tunis

09/2021 – 07/2024

CERTIFICATIONS

LLM Evaluation & Customization — NVIDIA (Aug 2025) · RAG in Azure with OpenAI and ChatGPT LLM Model — Udemy (Aug 2026)

AI Training — France Université Numérique (Apr 2023) · Intro to Data Science — 365 DataScience (Mar 2023)