

ABDERRAHMAN KOUKI

Software Engineering Student | Data Science & MLOps

Tunis • +216 28 880 321 • abderrahmen.kouki.software@gmail.com

abderrahman-kouki • r-kouki • koukiabderrahmen.me

Education

Ecole Polytechnique de Sousse 2023 – 2026
Software Engineering — Specialization in Data Science & AI ***(Honors: Very Good)*** *Sousse*

Université Paris Dauphine – PSL 2021 – 2023
Bachelor in Applied Mathematics for CS & Decision *Tunis*

IPEIT Tunis 2018 – 2021
Maths-Physics Preparatory Class *Tunis*

Experience

Anavid Feb – June 2026
End-of-Studies Intern – MLOps *Paris / Remote*

- Building an end-to-end **MLOps platform** for visual/action-detection data: KPI dashboards, traceability, versioned datasets, and reproducible training selections.
- Automated S3 manifest/versioning and deployment workflows using **Python, Streamlit, DVC, OVH S3, rclone, GitHub Actions, Docker/GHCR, Parquet**.

DS Informatique July – Aug 2025
Python Developer Intern *Remote*

- Automated factory timeclock integration, reducing payroll processing workload by 85%.
- Built a **RAG system** for summaries from business reports and internal documents. **Stack:** n8n, Python, SQL,Qdrant

Bureau Moncef Zayani July 2023
Accounting & IT Intern *Tunisia*

- Generated compliance reports and optimized database connectivity for financial tools. **Stack:** SQL, Java

Kouki Software 2020 – 2026
Founder & Lead Developer *Tunisia*

- Founded and led a software company delivering custom accounting, tax compliance, and ERP solutions for local businesses.
- Owned the full client lifecycle from requirements gathering to deployment and support. **Stack:** Windev, Python,LangChain, SQL, XML

Key Projects

Multi-Agent Debate Game LangGraph, CrewAI, Ollama

- Architected an interactive debating system featuring AI-vs-AI and Human-vs-AI modes with real-time TTS.
- Integrated trending topic generation and expert personas for immersive UX.

Diabetes Risk Tool Spark, Hadoop, XGBoost

- Processed large-scale CDC BRFSS dataset using distributed cleaning; deployed 85% acc. model via Streamlit.

MLOps Automation Pipeline ZenML, MLflow, DVC, K8s

- Orchestrated pipelines with **ZenML**, automated versioning (DVC), tracking (MLflow), and deployed via CI/CD.

Gym SaaS Platform React, Supabase

- Full-stack gym management system with automated booking bot, RLS security, and real-time updates.

Skills & Competencies

Programming Languages: Python, C, TypeScript, Java, C#, SQL, R
Embedded & Hardware: Basic STM32, Raspberry Pi (learning / academic exposure)
AI & Machine Learning: Deep Learning, NLP, RAG, LangChain, LangGraph, CrewAI, Google ADK, Ollama, Scikit-learn, TensorFlow
MLOps & Cloud: ZenML, Airflow, Docker, Kubernetes, MLflow, DVC, Spark, Hadoop
Web & Databases: PostgreSQL, MongoDB, Qdrant, React, Node.js, REST APIs
Core Competencies: Analytical Problem Solving, Technical Communication, Agile Methods

Certifications

Azure AI-900 • NVIDIA Deep Learning • NVIDIA NLP • NVIDIA Diffusion • PMI Mgmt Ready • Cisco CCNA • CyberOps • Basic Life Support

Honors & Volunteering

IEEE EPS Branch (Member) • **Twise Night Challenge** (Winner) • **IT Lab Dauphine** (Founder) • **Arim Assoc.** (Volunteer)

Languages

Arabic (Native) • **English** (Professional C1) • **French** (Professional C1) • **German** (Basic)