

Dhia Rekik

AI Engineer — Seeking end-of-studies internship (PFE) in Artificial Intelligence, starting July 2026

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Profile

AI Engineer in Master's degree at ECE Paris, with **2 years of industrial experience** in automotive software validation (BMW — EV charging systems) and a portfolio of production-grade AI projects: **serverless ML pipelines on Azure**, **multi-agent systems with RAG**, and **zero-shot computer vision**.

Experience

KPIT Engineering	Sep 2024 – Feb 2026
<i>Test & Validation Engineer (full-time) — Client: BMW</i>	<i>Sfax, Tunisia</i>
- Designed and executed requirements-driven conformance test suites for EV charging systems (GB/T, CHAdeMO) on BMW ECUs, integrated into the Zuul CI/CD pipeline – 50+ charging tests delivered. - Evaluated an AI reporting system for automated test-result comparison and report generation. - Analyzed and resolved 300+ anomalies (~80% resolution rate). - Developed Python scripts to automate result extraction from TestGuide, log analysis, and daily Excel reporting.	
Stack: Python, Jenkins, Robot Framework, CI/CD, Linux.	
Krichen Distribution	Feb – Aug 2024
<i>WordPress Developer (Freelance)</i>	<i>Sfax, Tunisia</i>
- Built and maintained a WooCommerce platform (700+ products) – UI/UX design in Figma, multilingual site (FR/AR), mobile responsive. Performance optimization (cache, images, Core Web Vitals) and SEO; integration of Google Analytics and Mailchimp (newsletters, abandoned-cart emails).	
Stack: WordPress, WooCommerce, PHP, Figma, Google Analytics, Mailchimp.	
SAGEMCOM	Feb – Aug 2023
<i>Web Developer (Final-Year Internship)</i>	<i>Tunis, Tunisia</i>
- Built a web application to automate test configuration and execution via Robot Framework and Selenium. Dockerized solution for seamless cross-platform deployment (Windows, Linux, macOS) + automated validation report generation. - Optimized internal test workflows and significantly improved automation efficiency.	
Stack: Python, Docker, Selenium, Robot Framework.	

Education

ECE Paris (Grande École)	2025 – 2026
<i>Master's degree — Artificial Intelligence</i>	<i>Paris, France</i>
Coursework: Multi-LLM Architectures, Gen AI & Diffusion Models, Computer Vision, Cloud Computing for AI, AI Transformation, Security & Data Protection, AI for Business Process Automation.	
ESPRIT (Higher School of Engineering and Technology)	2021 – 2023
<i>Engineering Degree — Software Engineering / Computer Science</i>	<i>Tunis, Tunisia</i>
ENET'Com (National School of Electronics and Telecommunications)	2017 – 2020
<i>Bachelor's degree — Information Sciences & Technology</i>	<i>Sfax, Tunisia</i>

Projects

Event-Driven ML Pipeline on Azure — Medical Risk Prediction	M2 ECE Integrative Project
Serverless event-driven ML pipeline on Azure (Blob → Event Grid → Queue + DLQ → Worker Functions). - Containerized FastAPI inference API on Azure Container Apps predicting a medical risk score. - Result storage and visualization via Cosmos DB and a Static Web App dashboard. Observability with Application Insights (metrics, alerts, KQL) and multi-environment CI/CD with GitHub Actions.	
Stack: Azure, Docker, FastAPI, GitHub Actions, KQL.	
Multi-Agent Multi-LLM RAG System — Digital Transformation Roadmap	M2 ECE Project
Multi-agent pipeline (6 agents) – Planner, Retrieval, Canvas, Strategist, Roadmap Generator, Evaluator – grounded in 3 academic frameworks via local RAG (FAISS + bge-small-en-v1.5). Multi-LLM routing (Gemini Flash 2.5 / Pro 2.5 / local LLaMA 3.1 8B via Ollama) based on task type, complexity, and criticality – eco-responsible AI approach.	
Stack: Python, FastAPI, React, LangChain, FAISS, Gemini, Ollama.	
AI CCTV — Harassment Detection	M2 ECE Project
Zero-shot video detection with CLIP + YOLOv8 – no anomaly training data required. - Real-time Streamlit dashboard + automated Telegram alerts on detected incidents.	
Stack: PyTorch, CLIP, YOLOv8, Streamlit.	
Dodge & Survive — REINFORCE Agent	M2 ECE RL Project
- Designed a custom Gymnasium environment (2D game) – state, action, reward, and termination design. - Stochastic softmax policy and REINFORCE (policy gradient) agent trained from scratch in PyTorch; live Pygame visualization.	
Stack: Python, PyTorch, Gymnasium, Pygame.	

Technical Skills

LLMs & Generative AI: LangChain, RAG, multi-agent systems, agentic AI, Hugging Face Transformers, OpenAI, Anthropic, Gemini, prompt engineering, fine-tuning
Vector Search: FAISS, embeddings, semantic search
ML & Computer Vision: PyTorch, TensorFlow, Scikit-learn, CLIP, YOLOv8, OpenCV, Whisper, Gymnasium (RL), Pandas, NumPy
Languages & Frameworks: Python, SQL, JavaScript, PHP; Flask, FastAPI, Streamlit, REST APIs
Cloud: Microsoft Azure, KQL, serverless, event-driven architecture
MLOps / DevOps / QA: Docker, Git, CI/CD (GitHub Actions, Jenkins, Zuul), n8n, Linux, Bash, Robot Framework, Selenium, Pytest, Scrum/Agile, Jira
Spoken Languages: Arabic (native), French (C1, TCF), English (B2, IELTS)

Certifications, Volunteering & Hobbies

Certifications: Scrum Fundamentals Certified Deep Learning Specialization (Coursera) Machine Learning Specialization (Coursera)
Volunteering: PMI Member, IEEE ENET'Com (Alumni, 2018–2020), Lions Club Méditerranéen (Alumni, 2019–2020)
Hobbies: Football, Chess, Reading