Anas Limem

AI Engineer

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PROFILE

I am a junior machine learning and AI engineer dedicated to transforming innovative ideas into practical solutions through end-to-end projects. With a strong foundation in cutting-edge deep learning frameworks and algorithms, I excel at optimizing models and exploring new technologies. I am committed to continuous learning and tackling challenges in the rapidly evolving AI landscape.

PROFESSIONAL EXPERIENCE

AI Intern

DrugIT — 10/2025 – Present, Tunis
- Developed 4 AI agents using Google's ADK framework, deploying the solution with 2 custom tools across 4 MCP servers to advance pharmaceutical domain intelligence.
- Optimized model deployment and data analysis pipelines by integrating Neo4j as the core graph database, significantly improving the mapping and retrieval of complex drug data.

Vision Age VFX — 09/2025 – 11/2025, Remote
- Engineered a feedback model that automatically generates insightful metrics tailored to user-specific criteria, reducing manual analysis time by 20%.
- Integrated an LLM to generate a full summary report based on evaluation metrics, automating insights and reducing report generation time.

BlueBlood — 02/2025 – 05/2025, Remote
- Designed and implemented a parser to extract structured data from diverse CV formats, improving parsing accuracy by 30% and reducing manual review effort.
- Enhanced semantic understanding and matching of candidate profiles using LLM APIs, increasing top-ranked CV retrieval precision by 20%.

EDUCATION

B.Sc. in Computer Science, *Higher Institute of Applied Sciences and Technology of Mateur* — 09/2023 – Present

SKILLS

Languages/Frameworks
Python, PyTorch, TensorFlow, Langchain, LangGraph, Pandas, Numpy, Matplotlib, FastAPI, Scikit-learn

AI/ML
RAG, Ollama, Langraph, CrewAI, ADK(Agent Development Kit), MCP

Database
MongoDB, PostgreSQL, Redis, Neo4j, FAISS, ChromaDB

DevOps/Deployment
Docker, Kubernetes, CI/CD, Git, Azure Blob Storage, Linux

PROJECTS

Optimizers-from-Scratch 🔗
Developed a tiny MLP, implementing both the forward and backward passes from scratch (no autograd). Achieved 97% test accuracy and deepened understanding of neural network optimization internals.

VectorMind AI 🔗
Designed and deployed an AI-powered platform for document Q&A. Users can upload PDFs or text files and receive context-aware responses powered by advanced language models. Managed document search and knowledge extraction for 50+ documents with real-time results.

AI-Career-Mentor 🔗
Built a cloud-native application that analyzes CVs, matches them to job requirements, detects skill gaps, and generates personalized learning roadmaps. Integrated LLM APIs, vector search FAISS, and FastAPI to deliver actionable insights for users.

PUBLICATIONS

Mastering Learning Rate Schedulers in Deep Learning, *Medium* 🔗 — 08/2025
A practical guide to choosing and using learning rate schedules for better training results.

Resume Extraction Isn't as Easy as I Thought, *Medium* 🔗 — 02/2025
Lessons learned and technical challenges faced while building a resume parsing tool.

Understanding REFRAG: Efficient LLM Compression and Curriculum Learning Explained, *Medium* 🔗 — 09/2025
Explains how REFRAG improves LLM efficiency with curriculum learning.

CERTIFICATES

Machine Learning Specialization 🔗
Coursera

Getting Started with Deep Learning 🔗
Nvidia

Fundamentals of Accelerated Computing with CUDA Python 🔗
Nvidia

Generative AI with Diffusion Models 🔗
Nvidia

Building Transformer-Based NLP Applications 🔗
Nvidia

LANGUAGES

Arabic
Native

English
Professional

French
Professional

VOLUNTEER

IEEE, *Chair CS ISSATM SBC*   10/2023 – Present
- Organized and led technical events, workshops, and AI sessions for students(e.g. Bizerte Tcodi, Choufli
- Supported project coordination and mentorship for new members in AI-related initiatives.