

# Anas Limem

AI Engineer

[✉ limemanas0@gmail.com](mailto:limemanas0@gmail.com) [📞 +216 21 293 957](tel:+21621293957) [📍 Tunisia](#) [🔗 Portfolio](#) [LinkedIn](#) [Github](#) [Medium](#)

## PROFILE

Junior AI Engineer with hands-on experience building LLM-powered systems, AI agents, retrieval pipelines, and model optimization tools. Passionate about solving real problems with scalable, production-ready AI solutions. Strong foundation in Python, deep learning, and modern AI workflows, with practical experience deploying end-to-end applications.

## PROFESSIONAL EXPERIENCE

### AI Instructor, Eazycode Academy

- Teach core machine learning concepts, including data preprocessing, model development, and evaluation.
- Guide students through PyTorch-based neural network projects focusing on architecture design and debugging.

09/2025 – Present  
Remote

### AI Intern

#### DrugIT

- Built 4 AI agents using Google's ADK framework and deployed them across 4 MCP servers.
- Integrated Neo4j as the main graph database, improving drug-data mapping and retrieval efficiency.

10/2025 – Present  
Tunis

#### Vision Age VFX

- Developed an automated feedback model generating user-specific evaluation metrics.
- Implemented an LLM-powered summarization system that auto-generates analytical reports.

09/2025 – 10/2025  
Remote

#### BlueBlood

- Built a CV parsing system improving extraction accuracy by 30% across diverse formats.
- Enhanced candidate job matching using LLM embeddings, boosting ranking precision by 20%.

02/2025 – 05/2025  
Remote

## 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

### Positional Encoding Explained: How Transformers Understand Word Order, Medium

11/2025

Explains the types of positional encoding and why we use each.

### Understanding REFRAG: Efficient LLM Compression and Curriculum Learning Explained, Medium

09/2025

Explains how REFRAG improves LLM efficiency with curriculum learning.

### 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.

## 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**

- Organized and led technical events, workshops, and AI sessions for students.
- Supported project coordination and mentorship for new members in AI-related initiatives.
- Attended R8 CS SYP in Egypt and presented my Student Branch there.

10/2023 – Present