

# Anas Limem

## Machine Learning Engineer

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### PROFILE

I'm a junior machine learning and AI engineer passionate about transforming ideas into reality through end- to-end projects. I dive into new technologies whether it's mastering the latest deep learning frameworks or exploring innovative algorithms . When I'm not coding, I'm experimenting with new tools, optimizing models. I am always eager to learn and take on new challenges in the ever-evolving field of AI.

### PROFESSIONAL EXPERIENCE

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|---|-------------------|
| <b>AI Intern, Drug It</b>   | 10/2025 – Present |
| <ul style="list-style-type: none"><li>Developing AI agents in the pharmaceutical domain using Google's ADK framework.</li><li>Contributing to intelligent drug data analysis pipelines and optimizing model deployment.</li></ul>   |                   |
| <b>NLP Engineer Intern, Vision Age VFX</b>  | 09/2025 – Present |
| <ul style="list-style-type: none"><li>Engineered a feedback model that automatically generates insightful reports tailored to user-specific criteria, reducing manual analysis time by 0% and accelerating decision-making for over 15 active users.</li><li>Integrated an LLM to generate a full summary report based on evaluation metrics, automating insights and reducing report generation time.</li><li>Built a machine learning recommendation system to identify and suggest top performing users, increasing user engagement by 25% and improving matching accuracy from 50% to 72%.</li></ul>  |                   |
| <b>NLP Engineer Intern, BlueBlood</b>   | 02/2024 – 05/2024 |
| <ul style="list-style-type: none"><li>Designed and implemented a parser to extract structured data from diverse CV formats, improving parsing accuracy by 30% and reducing manual review effort.</li><li>Enhanced semantic understanding and matching of candidate profiles using LLM APIs, increasing top-ranked CV retrieval precision by 20%.</li><li>Built and deployed a similarity-matching system to rank candidate profiles by relevance, reducing recruiter screening time by 35% and boosting placement efficiency.</li><li>Managed and queried over 500 candidate embeddings efficiently using a vector database FAISS, enabling real-time search and personalized recommendations</li></ul> |                   |

### EDUCATION

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|--|-------------------|
| <b>B.Sc. in Computer Science., Higher Institute of Applied Sciences and Technology of Mateur</b> | 09/2023 – Present |
| <b>Baccalaureate of Mathematics, El Alia High School</b>   | 09/2019 – 06/2023 |

### SKILLS

#### Languages/Frameworks

Python, PyTorch, TensorFlow, Langchain, LangGraph, MCP, Pandas, Numpy, Matplotlib, FastAPI, scikit-learn

#### AI/ML

RAG, FAISS, ChromaDB, Ollama, Langraph, CrewAI, ADK(Agent Development Kit)

#### Data

MongoDB, PostgreSQL, Redis Hugging Face

#### DevOps/Deployment

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

### PROJECTS

#### Optimizers-from-Scratch [🔗](#)

Developed a tiny MLP to classify MNIST digits, 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 & BLOGS

#### CV Extraction Isn't as Easy as I Thought, Medium [🔗](#)

Lessons learned and technical challenges faced while building a CV parsing tool.

02/2025

#### Mastering Learning Rate Schedulers in Deep Learning, Medium [🔗](#)

A practical guide to choosing and using learning rate schedules for better training results.

08/2025

CERTIFICATES

<b>Machine Learning Specialization</b> Coursera	<b>Getting Started with Deep Learning</b> Nvidia	<b>Fundamentals of Accelerated Computing with CUDA Python</b> Nvidia
<b>Generative AI with Diffusion Models</b> Nvidia	<b>Building Transformer-Based NLP Applications</b> Nvidia	

Languages

<ul style="list-style-type: none"><li>English</li><li>German</li></ul>	<ul style="list-style-type: none"><li>French</li></ul>	<ul style="list-style-type: none"><li>Arabic</li></ul>
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Volunteer

<b>IEEE, Chair CS ISSATM SBC</b> <ul style="list-style-type: none"><li>Organized and led technical events, workshops, and AI sessions for students(e.g. Bizerte Tcodi, Choufli Code) .</li><li>Supported project coordination and mentorship for new members in AI-related initiatives.</li></ul>	10/2023 – Present
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