# Anas Limem

*Machine Learning Engineer*

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in https://www.linkedin.com/in/anaslimem/  🔗 https://anaslimem.github.io/

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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.

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## PROFESSIONAL EXPERIENCE

**Vision Age VFX**                                                           09/2025 – Present
*Machine Learning Engineer Intern*
- Engineered a feedback model that automatically generates insightful reports tailored to user-specific criteria, reducing manual analysis time by 40% and accelerating decision-making for over 15 active users.
- 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%.

**BlueBlood**                                                               02/2024 – 05/2024
*NLP Engineer Intern*
- 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%.
- Built and deployed a similarity-matching system to rank candidate profiles by relevance, reducing recruiter screening time by 35% and boosting placement efficiency.
- Managed and queried over 500 candidate embeddings efficiently using a vector database FAISS, enabling real-time search and personalized recommendations

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## EDUCATION

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

**El Alia High School**                                                      09/2019 – 06/2023
*Baccalaureate of Mathematics*

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## 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.*

## SKILLS

**Languages/Frameworks**
Python, PyTorch, TensorFlow, FastAPI, scikit-learn

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

**AI/ML**
Langchain, LangGraph, MCP, RAG, FAISS, ChromaDB, Ollama, Hugging Face

**Data**
Pandas, Numpy, Matplotlib, MongoDB, PostgreSQL, Redis

## PUBLICATIONS & BLOGS

**Understanding REFRAG: Efficient LLM Compression and Curriculum Learning Explained** &#x1f517;
2025
Medium
*Explains how REFRAG improves LLM efficiency with curriculum learning.*

**Mastering Learning Rate Schedulers in Deep Learning** &#x1f517;
2025
Medium
*A practical guide to choosing and using learning rate schedules for better training results.*

**CV Extraction Isn't as Easy as I Thought** &#x1f517;
2025
Medium
*Lessons learned and technical challenges faced while building a CV parsing tool.*

## CERTIFICATES

**Getting Started with Deep Learning** &#x1f517;
NVIDIA

**Machine Learning Specialization** &#x1f517;
DeepLearning.Al &#x1f517;

**Fundamentals of Accelerated Computing with CUDA Python** &#x1f517;
NVIDIA

**Generative AI with Diffusion Models** &#x1f517;
NVIDIA

**Building Transformer-Based Natural Language Processing Applications** &#x1f517;
NVIDIA