

Mohammad Moazam

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PROFESSIONAL SUMMARY

GenAI Technical Lead with 3 AI patents and award-winning production systems serving 100+ engineers daily. Stellantis Genius Award winner (2023) and Top AI Talent (2025). Expert in RAG architectures, LLM fine-tuning, and safety-critical automotive AI with proven 15-30% efficiency gains.

EXPERIENCE

- Stellantis** Paris, France
Machine Learning Engineer → GenAI Technical Lead (promoted Oct 2023) Nov 2022 - Present
 - GenAI Copilot for Requirement Engineering:** Led architecture and implementation of production copilot (Claude Sonnet via Bedrock) automating statechart, unit test, and diagram generation for **100+ engineers**. **Achieved 15-30% time savings**. Iterating toward agentic approach with sandbox execution. **Leading 6-engineer team** (architecture, code review, mentorship).
 - Patent Portfolio & Innovation:** **Invented 3 GenAI automotive patents** (2 granted FR, 1 PCT application WO2025062082A1) for LLM-based vehicle troubleshooting and CAN signal interpretation. **Awarded company-wide Genius Award (2023)**, featured on Stellantis LinkedIn. Patents triggered the customer-facing copilot project.
 - Automotive Customer Copilot:** **Architected** multi-modal copilot deployed to US vehicle fleet. **Designed** custom multi-stage RAG (document relevance filtering, query decomposition with parallel execution) orchestrated via LangGraph. **Fine-tuned** Mistral for function calling, document relevance, and question decomposition. Integrated speech-to-speech capabilities.
 - Face Alignment for Driver Monitoring:** **Delivered** end-to-end 3D face alignment system for automotive safety applications, optimized for edge hardware with **sub-20ms latency**. **Owned** complete pipeline from data collection strategy through model architecture to production-ready deployment.
- Boxy** Paris, France
Computer Vision Engineer (Master's Thesis Internship) Feb 2022 - Sep 2022
 - Computer Vision & Production ML:** **Developed** 2D pose estimation model with REST API serving **10K+ daily requests** (Flask, Redis) achieving **sub-100ms response times**. **Created** Airflow data pipelines (**70% manual effort reduction**) and GitLab CI/CD workflows (**99.5% deployment success**). Master's thesis: multi-perspective 3D pose estimation and tracking for real-time applications.
- Valuelabs (Client: Nelson)** Hyderabad, India
Data Scientist - AI Consultant Jul 2019 - Nov 2020
 - Predictive Analytics & ML Solutions:** **Developed** predictive maintenance system using LSTM and Prophet for time-series anomaly detection on industrial sensor data. **Built** models for supply chain optimization and resource allocation across industrial verticals.

TECHNICAL EXPERTISE

- GenAI & LLMs:** Fine-tuning (LoRA/QLoRA/PEFT), RAG architectures (multi-stage retrieval, query decomposition), LangGraph orchestration, prompt engineering, Claude/GPT-4/Mistral, agentic workflows
- ML & Tools:** PyTorch, HuggingFace, scikit-learn, OpenCV, Airflow, Docker, Flask, Python (expert), SQL, C++, AWS Bedrock
- Specialized:** Computer Vision (pose estimation, GANs), Time-Series (LSTM, Prophet), Edge Optimization

EDUCATION

- Université Jean Monnet & University of Eastern Finland** France & Finland
Erasmus Mundus Joint Master's Degree - Photonics & ML; Rank: 4th in cohort 2020 - 2022
- Hindustan Institute of Technology & Science** Chennai, India
Bachelor of Technology - Information Technology; GPA: 9.44/10 2015 - 2019

RECOGNITION & CERTIFICATIONS

- Top AI Talent** - Stellantis (2025): Company-wide recognition for AI leadership
- Genius Award** - Stellantis (2023): Best Patent (featured on LinkedIn)
- LLM Edge Deployment** - Paris-Saclay & Pruna AI (2025)