Lokesh Kumar A R

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LinkedIn Profile | GitHub Portfolio | Personal Website

Executive Summary

Lead AI/ML Engineer at Imitate Labs with **9.63 CGPA** from **IIT Madras** and **Hindustan University**. Building innovative AI systems using **hybrid CNN-ViT architectures** and **LoRA fine-tuning**. **Creator of QritiQ**—university-funded AI evaluation platform achieving **95% accuracy** with **Whisper, Ollama,** and **Mistral and Llama** models.

Education

Indian Institute of Technology (IIT) Madras	Jan 2025 – Jan 2028
Bachelor of Science - Data Science and Applications	*Dual Degree Online Program*

- **Specialization:** Machine Learning, Deep Learning, Computer Vision, LLMs, AI Engineering

Hindustan Institute of Technology and Science	July 2023 – May 2027
Bachelor of Technology - Computer Science Engineering	*Chennai*

- **CGPA: 9.63/10** | **Academic Rank: 2nd** | **Core Focus:** AI Systems, ML, Data Structures, Algorithms

Technical Skills

AI/ML Frameworks: PyTorch, TensorFlow, Transformers, LLMs, LoRA, OpenAI Whisper, Hybrid CNN-ViT
Advanced Systems: Model Training, MLOps, CI/CD, Edge AI, RAG, Model Training
Engineering: Python (Advanced), Docker, FastAPI, Flask, REST APIs, Git/GitHub, Database Design
Data Science: Pandas, NumPy, Statistical Analysis, Jupyter, Visualization, Prompt Engineering
Tools & Tech: Ollama, Mistral Models, Model Context Protocol (MCP), Linux, Container Orchestration, Azure OpenAI

Professional Experience

Lead AI/ML Engineer	July 2025 – Present
Imitate Labs (imitatelabs.ai)	*Chennai*

- Leading the **AI/ML division** at an innovative early-stage startup, architecting **foundational infrastructure**
- Designing **custom ML model transformers and hybrid CNN-ViT architectures** for multimedia processing
- Developing **parameter-efficient fine-tuning techniques using LoRA** for resource-constrained environments
- Creating **model evaluation frameworks** and **end-to-end AI workflows** from data processing to optimization
- Leading **technical decision-making** for AI/ML stack selection and establishing **model training best practices**

AI R&D Intern & Project Lead, QritiQ Platform	May 2025 – July 2025
Hindustan Institute of Technology and Science	*Chennai*

- Initiated and led the development of **QritiQ**, securing full ownership and **university resource investment**
- Designed complete AI architecture with **Whisper ASR and LLM integration**, reducing evaluation time by **66%**
- Implemented **cost-effective deployment** using on-premise **llama3 and Mistral models (80% savings)**

Artificial Intelligence with Python Intern	Oct 2024 – Nov 2024
Cothon Solutions	*Remote*

- Implemented **CNN and MTCNN** for image recognition and facial detection projects with practical ML applications
- Developed understanding of **model training workflows, evaluation metrics, and deployment challenges**

Key Projects

QritiQ - AI-Powered Interview Evaluation System *Ollama, Mistral, Docker*   Founder-Led Project
- Single-handedly developed and **secured university funding** for this AI evaluation platform from concept to deployment
- Built complete system including **production-ready ML pipeline, FastAPI backend, and database architecture**

Face Detection & QR Attendance Management *OpenCV, MTCNN, Flask*   Academic Project
- Engineered **hybrid computer vision solution** achieving **98% facial recognition accuracy** with **spoofing prevention**
- Built **dual-verification system** combining facial recognition with dynamic QR code generation

Achievements & Leadership

Leadership & Recognition	2024-2025

- **AI/ML SPoC:** Blue Screen Programming Club (2025-Present) | **Lead Engineer:** Imitate Labs AI Division
- **Competition Winner:** AI Genesis Inter-College Competition (INNOTHON 2025, 20+ institutions)
- **Entrepreneurial Success:** Founded and secured institutional funding for QritiQ AI platform

Professional Certifications	2023-2025

- **Technical Certifications:** Docker Foundation Professional Certificate, GitHub Foundations Certification, ChatGPT Prompt Engineering, Git & GitHub (IBM)
- **Data & AI Certifications:** Google Data Analytics, BCG GenAI Job Simulation, Data Literacy (DataCamp), Accenture North America Data Analytics