Lokesh Kumar A R

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[LinkedIn Profile] | [GitHub Portfolio] | [Personal Website]

Executive Summary

High-achieving AI/ML Engineering student with **9.63 CGPA** from **IIT Madras** and **Hindustan University**. Creator of **QritiQ**—a **university-funded AI evaluation platform** achieving **95% accuracy** using **OpenAI Whisper, Ollama, and Mistral models**, securing **institutional investment**. Expertise in **Generative AI, LLMs, Multi-Agent Systems, Docker containerization, and Prompt Engineering** with hands-on experience in **production-ready AI system development**.

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, Reinforcement Learning, Computer Vision, LLMs, AI Full Stack Dev

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

- **CGPA: 9.63/10** (Current) | **Academic Rank: 2nd in Program** | **Certificate of Proficiency**
- **Core Focus:** AI & Expert Systems, Machine Learning, Advanced Data Structures, Algorithms, DBMS, Software Testing

Technical Skills

Programming: Python (Advanced), Java, C/C++, SQL
AI/ML: PyTorch, TensorFlow, Scikit-learn, OpenAI Whisper, Transformers, LLMs, Multi-Agent Systems, RAG
MLOps: Docker, Ollama, Models, Model Context Protocol (MCP), CI/CD, Edge AI Deployment
Data Science: Pandas, NumPy, Matplotlib, Seaborn, Statistical Analysis, Jupyter Notebooks
Backend: FastAPI, Flask, SQLAlchemy, MongoDB, REST APIs, Database Design
Tools: Git/GitHub, Linux, VS Code, Container Orchestration, Prompt Engineering

Professional Experience

AI Research and Development Intern	May 2025 – Present
Hindustan Institute of Technology and Science	*Chennai*

- Designed and developed **QritiQ**, an **AI-powered Self-Intro Evaluation platform** analyzing communication effectiveness
- Achieved **66% reduction in manual evaluation time** while maintaining assessment depth and precision
- Integrated **Whisper ASR models with LLM systems** for automated speech and presentation evaluation
- Implemented **local LLM deployment** using **Ollama and Mistral models** achieving **80% cost reduction** vs cloud APIs
- Secured **university financial investment** for commercialization and multi-institutional deployment

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

- Gained hands-on experience in **Machine Learning and Deep Learning algorithms**, including **CNN and MTCNN**
- Implemented **image recognition and facial detection projects**, enhancing practical ML application skills
- Developed comprehensive understanding of **model training, evaluation metrics, and deployment challenges**
- Adapted quickly to new concepts, **independently researching unfamiliar algorithms and tools**

Key Projects

QritiQ - AI-Powered Interview Evaluation System *Ollama, Mistral, Docker*	College Research (Funded)

- Architected **end-to-end ML pipeline** achieving **95% speech recognition accuracy** using **OpenAI Whisper**
- Implemented **Mistral 7B and Llama models** in **Docker containers** achieving **80% cost reduction** vs cloud APIs
- Built **production-ready FastAPI backend** with **SQLAlchemy ORM** and real-time processing
- Secured college **investment** for commercialization targeting multi-institutional deployment

Face Detection & QR Attendance Management *OpenCV, MTCNN, Flask*	Academic Project

- Engineered **hybrid computer vision solution** achieving **98% facial recognition accuracy** using **OpenCV and MTCNN**
- Implemented **liveness detection algorithms** preventing spoofing attacks with **dynamic QR code generation**
- Built **dual-verification system** combining facial recognition with QR scanning for enhanced security

Achievements & Leadership

Major Achievements	2024-2025

- **Winner:** AI Genesis Inter-College Competition | **INNOTHON 2025** (20+ competing institutions)
- **2nd Rank with CGPA 9.63** | **Certificate of Proficiency** | Hindustan University
- **University Recognition:** Secured **financial investment** for QritiQ project commercialization
- **Project Lead:** Led QritiQ development from concept to university investment

Certifications	2023-2025

- **Docker Foundations Professional** | **GitHub Foundations** | **ChatGPT Prompt Engineering for Developers**
- **Google Data Analytics Specialization** | **BCG GenAI Job Simulation** | **Data Literacy Certification**
- **Accenture Data Analytics & Visualization Virtual Experience** | **Git & GitHub by IBM**