

Lokesh Kumar A R

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[LinkedIn](#) | [GitHub](#) | [Portfolio](#) | [Imitate Labs](#)

PROFESSIONAL OBJECTIVE

Startup-driven, full-stack **AI/ML Engineer** with hands-on experience across **product design, backend infrastructure, ML systems, and leadership**. Dual degree from **IIT Madras** and **Hindustan University** (CGPA 9.63, CSE Dept. Excellence in Academia). Self-taught across multiple domains with proven ability to learn and ship features end-to-end. Currently at **Imitate Labs** shipping AI video products. Experienced in startup velocity, cross-functional collaboration, and understanding both technical and business flows to deliver real-world impact.

EDUCATION

Indian Institute of Technology (IIT) Madras

Jan 2025 – Dec 2027

Bachelor of Science – Data Science and Applications

Dual Degree | Online Program

- Specializations: Machine Learning, Deep Learning, Computer Vision, LLMs, AI Engineering
- Core Coursework: Neural Networks, Statistical Learning, Multi-Agent Systems, Mathematical Foundations

Hindustan Institute of Technology and Science

July 2023 – May 2027

Bachelor of Technology – Computer Science Engineering

Chennai

- **CGPA: 9.63/10 | Pinnacle Performer of the Year Award (2025)** | Certificate of Proficiency (CSE Dept.)
- Core Coursework: Data Structures & Algorithms, AI Systems, Database Management, Software Engineering
- Recognition: Excellence in Academia Award (Apr 2025); institutional funding secured for AI research

PROFESSIONAL EXPERIENCE

Lead AI/ML Engineer & Team Lead

Jul 2025 – Present

Imitate Labs

imitatelabs.ai

- Architected full-stack **Creator Style Replication AI** – built end-to-end AI video editing pipeline using **FFmpeg, OpenCV, RAG, VLM, and LLM** for automated creator content generation
- Led cross-functional engineering team of developers, designers, and ML engineers from zero to production MVP
- Built and deployed **IL Internal OS** – a web-based OS-style internal dashboard for Imitate Labs workflows on Vercel
- Established MLOps pipelines covering model training, evaluation, containerization, and continuous deployment
- *Stack: PyTorch, FastAPI, Next.js, Node.js, Docker, FFmpeg, OpenCV, RAG, VLM, LLM, AI/ML, Model Training, Model Evaluation, GenAI, MLOps, Vercel*

AI/ML Lead

Sep 2025 – Present

Blue Screen Programming Club, Hindustan Institute of Technology and Science

Chennai

- Directing all AI/ML initiatives and technical mentorship programs across **200+ active club members**
- Curating workshops, event formats, and hands-on challenge programs bridging academic AI with industry practice
- Organizing inter-college competitions and collaborative AI project delivery under production constraints

AI R&D Intern & Co-Founder, Project Lead – Qritiq

May 2025 – Jul 2025

Hindustan Institute of Technology and Science

Chennai

- Co-founded and led university-funded **Qritiq** – an AI self-introduction evaluator platform assessing communication effectiveness
- Integrated **OpenAI Whisper + Ollama + Mistral/Llama** end-to-end pipeline achieving **95% transcription accuracy**

- Delivered **66% reduction in manual evaluation time** across **800+ student assessments**
- Secured institutional financial sponsorship for commercialization and multi-college deployment
- *Stack: Python, FastAPI, Whisper ASR, Ollama, Mistral, Docker, SQLAlchemy*

AI with Python Intern

Oct 2024 – Nov 2024

COTHON Solutions

Remote

- Delivered AI automation scripts and data pipelines in Python under real production timelines and deadlines
- Built ML prototypes spanning NLP, text classification, and generative AI tasks
- Gained foundational industry experience in model evaluation, deployment, and code review processes
- *Stack: Python, NLP, Scikit-learn, Classification Models, Automation*

PROJECTS & SHIPPED PRODUCTS

Imitate Labs – Creator Style Replication AI | *PyTorch, FastAPI, Next.js, Node.js, Docker, FFmpeg, OpenCV, RAG, VLM, LLM*

imitatelabs.ai

- Built end-to-end AI video editing pipeline; automated creator style replication using **FFmpeg, OpenCV, RAG, VLM**, and **LLM** for production-grade content generation
- Led end-to-end development from architecture design to live production deployment for Imitate Labs

QritiQ – AI Interview Self-Evaluation Platform | *Whisper, Ollama, Mistral, FastAPI*

University-Funded Research

- End-to-end ML pipeline with 95% ASR accuracy; evaluated 800+ students with 66% time savings vs manual review
- Custom LLM prompt frameworks (Supreme Code, TINE, ITDOC) ensured consistent, structured evaluations

CertiProof – Blockchain Certificate Issuance & Verification | *TypeScript, Blockchain, Vercel*

certiproof-eta.vercel.app

- Tamper-proof certificate issuance and on-chain verification system; fully deployed on Vercel

Trustify – Real-Time Fake News Detector | *JavaScript, Chrome API, NLP*

Chrome Extension

- Browser extension detecting fake news and verifying facts in real-time using NLP models

IL Internal OS – Web-Based Internal Dashboard | *TypeScript, Next.js, Vercel*

il-internal-os.vercel.app

- OS-style internal operations dashboard for Imitate Labs; built and deployed end-to-end

Tunear Studio – AI Audio Mastering SaaS | *Next.js, FastAPI, Celery, Redis, Azure Blob, Supabase, Docker* Full-Stack SaaS in Development

- Building production-grade AI-powered audio mastering SaaS platform for independent music producers and sound engineers
- Full-stack development from scratch to production: backend infrastructure (FastAPI + Celery + Redis), frontend (Next.js), cloud infrastructure (Azure Blob, Supabase), containerization (Docker)
- Architecting end-to-end system covering AI/ML pipelines, security, database design, UI/UX, and cloud infrastructure deployment
- Targeting real users in music production with focus on scalability, reliability, and professional audio quality

AI Unfiltered – GenAI College Event Game | *TypeScript, Prompt Engineering, GenAI*

ai-unfiltered-five.vercel.app

- Interactive tech event game pitting human creativity vs AI with prompt guardrails and live evaluation system

Memoji – AI-Powered Roasting Engine | *TypeScript, Computer Vision, GenAI, Next.js*

memoji-lake.vercel.app

- AI-powered meme generator: capture your face and mood, get roasted by GenAI engine; built for BSPC college event; live with 200+ participants

Faah – VS Code Terminal Sound Extension | *TypeScript, VS Code API*

Marketplace | 150+ installs

- Published VS Code extension that plays dramatic audio cues on terminal command failures; 150+ active installs

TECHNICAL SKILLS

AI/ML Frameworks: PyTorch, TensorFlow, Transformers, OpenAI Whisper, LLMs, LoRA, RAG, Scikit-learn
Advanced AI Systems: Multi-Agent Systems, Agentic AI, MLOps, Edge AI, Model Context Protocol (MCP)
LLM & GenAI: Ollama, Mistral, Llama, Azure OpenAI, Prompt Engineering, Fine-Tuning, RLHF
Programming: Python (Advanced), JavaScript, TypeScript, SQL, HTML/CSS, C/C++
Backend & DevOps: FastAPI, Flask, Docker, REST APIs, Git/GitHub, Linux, CI/CD, Vercel
Data Science: Pandas, NumPy, Statistical Analysis, Matplotlib, Jupyter, Data Pipelines
Cloud & Tools: Azure OpenAI, Oracle Cloud Infrastructure (OCI), Google Cloud Platform (GCP), Container Orchestration, System Design

ACHIEVEMENTS & CERTIFICATIONS

Honors & Awards

2024 – 2025

- **Pinnacle Performer of the Year Award** – Dept. of CSE, Hindustan University (Sep 2025) | [View Award](#)
- **Excellence in Academia Award** – CSE Dept., Hindustan University (Apr 2025) with CGPA 9.63 and Certificate of Proficiency
- **Competition Winner** – AI Genesis Inter-College AI Competition, INNOTHON 2025 | [20+ Institutions](#)
- **Institutional Funding** – Secured university financial investment for QritiQ AI platform commercialization

Professional Certifications

2023 – 2025

- **OCI 2025 Certified Data Science Professional** – Oracle | Nov 2025 | [Verify](#)
- **OCI 2025 Certified AI Foundations Associate** – Oracle | Oct 2025 | [Verify](#)
- **Docker Foundations Professional Certificate** – Docker, Inc | Jun 2025 | [Verify](#)
- **GitHub Foundations Certification** – GitHub | Dec 2024 | [Verify](#)
- **Data Literacy Certification** – DataCamp | [Verify](#)
- **BCG GenAI Job Simulation** – Forage | Oct 2024 | [Verify](#)
- **Google Data Analytics Specialization** – Coursera | Sep 2023 | [Verify](#)
- **Accenture North America Data Analytics Job Simulation** – Forage | Oct 2024 | [Verify](#)

LEADERSHIP & COMMUNITY

Current Leadership Roles

2025 – Present

- **Lead AI/ML Engineer & Team Lead** – Imitate Labs; leading engineering team and AI product vision
- **AI/ML Lead** – Blue Screen Programming Club; directing 200+ member AI community
- **Co-Founder & Project Lead** – QritiQ AI Platform; university-sponsored, multi-institution deployment
- **Co-Founder & Project Lead** – Tunear Studio SaaS; full-stack development of AI audio mastering platform
- **Co-Founder & Team Lead** – Flaron Tech; leading delivery of client projects and managing cross-functional engineering team