

Lokesh Kumar A R

AI Product Engineer | Full-Stack Builder | SaaS Founder

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

PROFESSIONAL SUMMARY

Full-Stack **AI Product Engineer** who has shipped **8+ end-to-end AI products** — from raw architecture to live production. Worked directly with **founders and CEO** to define, build, and deploy complete systems: **Next.js** frontends, **FastAPI** backends, **Azure & GCP** cloud infrastructure, and ML pipelines. Won **First Prize & Best Project Award** at Gyan Disha '26 Expo. High-ownership builder who thrives at startup velocity — pursuing B.Tech CSE (**CGPA 9.61**) at Hindustan University alongside B.S. Data Science at **IIT Madras**.

EDUCATION

Indian Institute of Technology (IIT) Madras

Jan 2025 – Dec 2027

Bachelor of Science – Data Science and Applications

Online Program

- Specializations: Machine Learning, Deep Learning, Computer Vision, LLMs, AI Engineering
- Core Coursework: PDSA, DBMS, Application Development, 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: 9.61/10** | **Pinnacle Performer of the Year Award** (2025) | Certificate of Proficiency (CSE Dept.)
- Core Coursework: Data Structures & Algorithms, AI Systems, Database Management, Software Engineering
- **Excellence in Academia Award** (2026) | **Excellence in Academia Award** (Apr 2025) | Institutional funding secured for AI research

PROFESSIONAL EXPERIENCE

AI Product Builder & Full-Stack Engineer

Apr 2026 – Present

Self-Employed · Freelance

Chennai, Tamil Nadu · Remote

- Building and shipping production-grade AI-powered software products independently for clients, founders, and own ventures
- Developing **Tunear Studio** — AI-powered audio mastering SaaS (tunear-studio.vercel.app) using Next.js, FastAPI, Celery, Redis, Azure Blob, Supabase, and Docker
- Leading **Flaron Tech** (flarontech.com) — a 5-member development agency delivering full-stack client projects across web, AI, and SaaS
- Available to build: MVPs, SaaS products, AI integrations, production APIs, and end-to-end systems on demand

AI Product Engineer & Tech Lead

Jul 2025 – Apr 2026

Imitate Labs (Startup)

imitatelabs.ai Chennai · Onsite

- Built a full-stack **AI Video Editor** end-to-end — raw footage upload to polished video with **auto cuts, b-rolls, background music, zoom effects, transitions, and subtitles/captions**; powered by **LLMs, custom NLE editor pipeline, and FFmpeg** on **Azure & GCP** infrastructure
- Owned complete system architecture as sole full-stack engineer: **FastAPI** backend, **Next.js** frontend, **Azure Blob & GCP** storage, databases, and **Docker CI/CD** — zero to live production
- Built **ILIOS** — a fully manageable internal team OS covering **KPI dashboards, hiring pipelines, and task management**; shipped end-to-end on Next.js/TypeScript
- Worked directly with **founders and CEO** to define product vision, translate requirements into shipped features, and lead cross-functional execution across engineering, design, and ML

AI/ML Lead

Sep 2025 – Present

Blue Screen Programming Club, Hindustan Institute of Technology and Science

Chennai · Onsite

- 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 Project Lead – QritiQ

May 2025 – Jul 2025

Hindustan Institute of Technology and Science

Chennai · Onsite

- Led development of university-funded **QritiQ** — an AI self-introduction evaluator platform; worked directly under the **Research Director** and owned all full-stack architectural decisions
- Integrated **OpenAI Whisper + Ollama + Mistral/Llama** pipeline using **Python, FastAPI, and Docker**, achieving **95% transcription accuracy** — a real contribution to institutional AI research
- Delivered **66% reduction in manual evaluation time** across **800+ student assessments**
- Secured institutional financial sponsorship for commercialization and multi-college deployment

AI with Python Intern

Oct 2024 – Nov 2024

COTHON Solutions

Remote

- Built a **Face Recognition Attendance Web App** using **CNN** and **Python**; implemented real-time detection pipeline for automated attendance tracking
- Developed AI scripts and GenAI prototypes spanning **NLP, text classification, and automation** using **Scikit-learn and Python**
- Gained hands-on experience with **Git**, code review workflows, and industry-standard development practices

PROJECTS & SHIPPED PRODUCTS

AI Video Editor – Creator Style Replication | *PyTorch, FastAPI, Next.js, FFmpeg, OpenCV, Azure, GCP, Docker*

Shipped | imitatelabs.ai

- Full-stack AI video editor: raw footage upload to polished video with **auto cuts, b-rolls, music, zooms, transitions, and captions** using FFmpeg, OpenCV, PyTorch, and VLMs
- Sole engineer on complete stack: FastAPI backend, Next.js frontend, Azure Blob & GCP storage, Docker — zero to production

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

In Development | tunear-studio.vercel.app

- Architecting production-grade AI audio mastering SaaS for independent music producers; full solo end-to-end build
- Full system: FastAPI + Celery + Redis backend, Next.js frontend, Azure Blob, Supabase DB, Docker — complete ownership from architecture to deployment

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

Live | certiproof-eta.vercel.app

- **First Prize & Best Project Award** – Gyan Disha '26 Expo; tamper-proof certificate issuance and on-chain verification system, fully deployed on Vercel

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

University-Funded | Shipped

- 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

ILIOS – Internal Team Operations OS | *TypeScript, Next.js, Vercel*

Live | il-internal-os.vercel.app

- Fully manageable internal ops platform: KPI dashboards, hiring pipeline, and task management — built and deployed end-to-end for Imitate Labs

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

Live | 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* [Live | memoji-lake.vercel.app](https://memoji-lake.vercel.app)

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

Faah – VS Code Terminal Sound Extension | *TypeScript, VS Code API* [Marketplace](#) | 260+ installs

- Published VS Code extension that plays dramatic audio cues on terminal command failures; **260+ active installs** on VS Code Marketplace

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

TECHNICAL SKILLS

AI/ML & GenAI: PyTorch, TensorFlow, Transformers, OpenAI Whisper, LLMs, LoRA, RAG, Scikit-learn, Ollama, Mistral, Azure OpenAI, Prompt Engineering, Agentic AI, MCP

Frontend: Next.js, React, TypeScript, Tailwind CSS, shadcn/ui, Framer Motion, REST API Integration, Responsive Design

Backend & APIs: FastAPI, Node.js, Celery, Redis, REST APIs, WebSockets, SQLAlchemy, Flask

DevOps & Cloud: Docker, CI/CD, Git/GitHub, Linux, Vercel, Azure (Blob, OpenAI), GCP, Oracle OCI, Container Orchestration

Databases: PostgreSQL, Supabase, SQLite, SQL, Database Design, Migrations

Programming: Python (Advanced), JavaScript, TypeScript, SQL, HTML/CSS, C/C++

ACHIEVEMENTS & CERTIFICATIONS

Honors & Awards

2024 – 2026

- **First Prize & Best Project Award** – Gyan Disha '26 Project Expo (2026); *CertiProof* – Blockchain Certificate Verification System
- **Excellence in Academia Award** – CSE Dept., Hindustan University (2026) | CGPA 9.61 | Certificate of Proficiency
- **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) | CGPA 9.61 | 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](#)

EXTRACURRICULAR & COMMUNITY

Co-Founder & Tech Lead, Flaron Tech (2025 – Present) — Co-founded a tech agency delivering client web apps, AI tools, and SaaS products; leading technical strategy and end-to-end product delivery across multiple client engagements.

AI/ML Lead, Blue Screen Programming Club (Sep 2025 – Present) — Directing AI/ML initiatives and mentorship programs across 200+ active club members; organizing inter-college competitions and hands-on AI challenge programs.

Co-Founder, Tunear Studio — Building an AI audio mastering SaaS for independent music producers (tunear-studio.vercel.app).