

Gokul Krishnan YN

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PROFESSIONAL SUMMARY

AI/ML Engineer with practical experience in GenAI, NLP, and end-to-end MLOps. Known for shipping real-world ML systems with strong reliability and user impact. Specialized in building scalable pipelines, real-time AI applications, and RAG-based solutions using Python, FastAPI/Flask, and Docker.

EDUCATION

KGiSL Institute of Technology, Coimbatore

2022–2026 (*Expected*)

B.E. in Computer Science and Engineering | CGPA: **7.76**/10

Kurinji Educational Institutions, Namakkal

2021–2022

Higher Secondary Certificate (HSC) — **78%**

Bharathi Academy, Namakkal

2019–2020

Secondary School Leaving Certificate (SSLC) — **76%**

EXPERIENCE

AI Intern — Novanectar Services Pvt. Ltd. (Remote)

June 2025

- Developed a real-time face detection system using OpenCV + Python, achieving 94% accuracy in surveillance setups.
- Refined the detection pipeline with targeted image filtering + threshold tuning, cutting false positives by 35% and boosting system reliability.
- Contributed to AI-powered safety monitoring for smart surveillance applications.

Machine Learning Intern — Codsoft (Remote)

August 2024

- Built ML models for fraud detection and spam classification using Logistic Regression & Decision Trees, delivering 87% accuracy.
- Developed a Streamlit web app for real-time predictions and interactive visualizations.
- Improved model performance through feature engineering and hyperparameter tuning.

PROJECTS

AI Personal Workout & Meal Recommender (Fit App) [GitHub]

2024

Engineered a BMI-based GenAI fitness platform generating personalized workout plans and meal recommendations using GPT and Groq APIs. Deployed on Streamlit with optimized latency, serving 50+ users with 85% satisfaction rate.

ZeroQuery — Academic RAG Q&A Assistant [GitHub]

2024

Architected a LangChain-powered RAG chatbot with NoSQL context storage for academic Q&A, achieving 90% query resolution accuracy across 100+ active students. Integrated vector embeddings for semantic search capabilities.

Personalized Medical Recommendation System [GitHub]

2024

Built an ML-powered medical recommendation engine using Random Forest (88% accuracy) deployed via Flask, recommending medicines and workouts across 5,000+ symptom records. Enhanced interpretability through interactive data visualizations.

Cloud-Based Document Management System [GitHub]

2024

Designed and implemented a secure document portal with upload, download, and metadata tracking capabilities. Handled 500+ documents with 99% uptime and role-based access control.

Automatic Waste Segregation System using IoT

2024

Designed a smart waste segregation system detecting and separating wet waste, plastic, metal, and other materials using IoT sensors. Achieved 92% classification accuracy in real-time testing with hardware integration.

TECHNICAL SKILLS

Programming Languages: Python, Java, C

Frameworks & Tools: Flask, FastAPI, Streamlit, React (Basic), Git, GitHub, Docker

Web Development: HTML, CSS, JavaScript

Databases: MySQL, MongoDB

AI/ML Tools: Pandas, NumPy, Scikit-learn, OpenCV, LangChain, RAG, NLP, LLMs

CERTIFICATIONS & TRAINING

Microsoft Office — Naan Mudhalvan

2023

Cloud Computing Fundamentals — Naan Mudhalvan

May 2024

UiPath Automation Developer — UiPath Community

September 2023

AWS Summit Participant — Generative AI, Kubernetes, ML

2024

SOFT SKILLS

Communication, Problem Solving, Adaptability, Strategic Thinking, Team Collaboration, Time Management

LANGUAGES

Tamil — Native, English — Proficient

ACHIEVEMENTS & HACKATHONS

1st Place — Celestra Symposium, Adithya Institute of Technology

March 2024

Led a team of 4 to develop a Medical Recommendation System, securing 1st place among 15+ competing teams.

2nd Place — UiPath Hackathon

2023

Developed an intelligent customer service chatbot using UiPath automation framework.

3rd Place — Hack-Fest '23, KPR Institute of Technology

2023

Built a fake news detection system using machine learning algorithms with 84% accuracy.

Special Recognition — SIH Thiruvizha & Hackera

2024–2025

Developed IoT-enabled AI waste segregation system, recognized for complete working prototype with hardware integration at KGSL and Sathyabama University.

Participant — Dev Day'24 & Ethical HackHive, KGSL

2024

Demonstrated Generative AI solutions for chatbot development and fraud detection use cases.

Additional Hackathons: Techville-a-thon, Blockchain Ideathon, UiPath SmartIndia Hackathon

2023–2025

Gained practical experience in agile team collaboration, GenAI prototyping, and rapid deployment strategies.

LEADERSHIP & VOLUNTEERING

Technical Mentor — PyExpo'24, KGSL Institute of Technology

2024

Mentored 20+ junior students on Python programming and ML fundamentals during annual tech expo.

Video Coordinator — Cynosure'25, KGSL

2025

Coordinated video production and technical documentation for college-wide technology symposium.

Environmental Volunteer — Coimbatore River Rally

2022

Participated in river cleanup initiative as part of environmental conservation awareness program.