

# 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 Mudhalvan2023

**Cloud Computing Fundamentals** — Naan MudhalvanMay 2024

**UiPath Automation Developer** — UiPath CommunitySeptember 2023

**AWS Summit Participant** — Generative AI, Kubernetes, ML2024

**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 TechnologyMarch 2024

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

**2nd Place** — UiPath Hackathon2023

Developed an intelligent customer service chatbot using UiPath automation framework.

**3rd Place** — Hack-Fest '23, KPR Institute of Technology2023

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

**Special Recognition** — SIH Thiruvizha & Hackera2024–2025

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

**Participant** — Dev Day'24 & Ethical HackHive, KGiSL2024

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

**Additional Hackathons:** Techville-a-thon, Blockchain Ideathon, UiPath SmartIndia Hackathon2023–2025

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

**LEADERSHIP & VOLUNTEERING**

**Technical Mentor** — PyExpo'24, KGiSL Institute of Technology2024

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

**Video Coordinator** — Cynosure'25, KGiSL2025

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

**Environmental Volunteer** — Coimbatore River Rally2022

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