Gokulbarath SK

Chennai, India | gokul00060@gmail.com | gokulbarath.is-a.dev

GitHub: [gokul6350](https://github.com/gokul6350) | LinkedIn: [gokulbarath](https://linkedin.com/in/gokulbarath)

PROFILE

Passionate AI and ML developer dedicated to building intelligent systems and agentic workflows. Third-year Mechatronics Engineering student with hands-on experience in Large Language Models (LLMs), Model Context Protocol (MCP), and software integration. Focused on developing practical, AI-powered tools that leverage modern frameworks to solve complex problems through intelligent automation.

Total 64 GitHub Stars across all repositories

EDUCATION

Sathyabama Institute of Science & Technology	Chennai, India
Bachelor of Engineering in Mechatronics Engineering	*June 2023 – May 2027*
Bright International School	Ahmedabad, Gujarat
Higher Secondary Education (CBSE)	*2021 – 2023*
Delhi Public School	Gandhinagar, Gujarat
Secondary Education (CBSE)	*Mar. 2021*

OPEN SOURCE CONTRIBUTIONS

LangChain | *Ecosystem Contributor*

- Identified missing Groq vision support (issue #34589) and authored PR #2259 in langchain-ai/docs, adding the complete Vision + multimodal section (now live in official docs). Enables seamless adoption of vision-capable models like Llama-4 Scout/Maverick.

SELECTED PROJECTS

Deep Shell | *Python, CLI Development, NLP* | 27 Stars — [GitHub]

- Intelligent terminal application that uses natural language processing to interpret and execute shell commands.
- Features integrated chat interface enabling users to interact with their system using conversational AI.

GNX CLI | *Python, Groq, Large Language Models* — [GitHub]

- Developed a Next-Gen AI Agent that goes beyond text to control Desktop and Android environments.
- Implements a modular, agentic architecture where a main controller drives memory retrieval and tool execution.

EduVid-LLM | *Python, Generative AI, LLMs* — [GitHub]

- Designed a planning-centric architecture for automated educational video generation.
- Leverages LLMs to transform educational content into structured video scripts and visual assets.

Additional projects available at: gokulbarath.is-a.dev/#projects

TECHNICAL SKILLS

Artificial Intelligence & ML: Large Language Models (LLMs), Model Context Protocol (MCP), Agentic Workflows, Diffusion Models, OpenCV, Reinforcement Learning, PyTorch, TensorFlow
Programming Languages: Python, C/C++, JavaScript, TypeScript, Bash Scripting
Software Development: FastAPI, Flask, Next.js, React.js, Tailwind CSS, Git, SQL, Shell Scripting
Languages: English (Fluent), Tamil (Native), Hindi (Fluent), Gujarati (Fluent)

CERTIFICATIONS & ACHIEVEMENTS

Introduction to Deep Learning – Kaggle Learn	Feb. 2024
CS50's Introduction to Artificial Intelligence with Python – Harvard University	Aug. 2023