

Gokul Sree Chandra Polavarapu

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PORTFOLIO - **GokulAIx**

TECHNICAL SKILLS

- **Core Languages & Systems** Python, SQL, FastAPI, REST APIs
- **LLMs & Agentic Systems** Retrieval-Augmented Generation (RAG), LangChain, LangGraph, Agent Orchestration, Prompt Engineering, LLM APIs (Gemini, OpenAI, Groq), RAG Evaluation (Ragas, TruLens)
- **Machine Learning & Deep Learning** Supervised Learning, Feature Engineering, Model Evaluation, Transformer Architectures, Fine-Tuning, PyTorch
- **Data & Retrieval** Sentence-Transformers, Vector Databases, Embedding Models
- **ML Tooling** NumPy, Pandas, Scikit-learn

EXPERIENCE

Quant AI Intern (Full Time)

Fidura AI

Remote, India | October 2025 to Present

- Built and deployed a production-grade RAG extraction pipeline converting tender PDFs into 19 schema-validated fields using hybrid retrieval (sentence-transformers + pgvector keyword boosting), Docling/PyMuPDF ingestion, and bounded-concurrency LLM execution with page-level provenance.
- Engineered a LangGraph-based AI agent orchestrator to automate end-to-end quantitative workflows, from research to simulated execution.
- Built 5+ FastAPI-based REST APIs enabling external users to invoke, configure, and control AI agents, exposing agent-driven financial workflows as services.
- Integrated 4+ custom financial tools for strategy backtesting, simulated order placement, and calculating hedge ratios for risk management.

Head of Technical Operations

Young Compete

Remote, India | July 2024 to January 2025

- Led 3+ tech projects (e.g., Prof Connect) to streamline networking for 1,500+ students and teachers.
- Automated data scraping from 5 sources for the off-campus placements page, utilizing APIs, and improved access rate by 30%.
- Led a 10-member technical team to build community-focused engagement solutions.

PROJECTS

VidQuery – AI YouTube Video Assistant

- Built a real-time RAG system enabling sub-5s question answering over long-form YouTube videos using transcript chunking, dense retrieval, and LLM-based response synthesis.
- Tech: Python, LangChain, Gemini, Hugging Face, Sentence-Transformers, ChromaDB.
- [GitHub](#) | [Live Demo](#)

Blaze – AI Web Page Summarizer & Chatbot (Chrome Extension)

- Built a Chrome extension for instant webpage summarization and interactive Q&A using a Map-Reduce RAG pipeline.
- Tech: Python, LangChain, Gemini, ChromaDB, Flask, JavaScript.
- [GitHub](#) | [Demo Video](#)

Not - Jarvis (V1, In Progress) Agentic AI Assistant Framework

- Built a planner-executor based AI agent using LangGraph to decompose user intent into multi-step actionable plans and execute real-world actions through a Python-based execution layer.
- Designed structured planning schemas with Pydantic to enforce validated, interpretable, and reliable agent plans.
- Tech: Python, LangGraph, LangChain, Gemini API, Pydantic.

EDUCATION

Gandhi Institute of Technology and Management (GITAM)
Bachelor of Technology in Computer Science and Engineering (3rd Year)

Visakhapatnam, India
August 2023 to Present