

# Gokul Sree Chandra Polavarapu

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## PORTFOLIO - **GokulAIx**

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### TECHNICAL SKILLS

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- **Programming Languages** Python, SQL
- **GenAI and LLMs** LangChain, LangGraph, RAG, Prompt Engineering, Hugging Face, LLM APIs (Gemini, Groq, OpenAI), RAG Evaluation Metrics, Ragas, Trulens
- **Deep Learning** Transformer Architecture, Encoder-Decoder Models, Fine-Tuning, Neural Networks, PyTorch
- **Machine Learning** Supervised Learning (Regression, Classification), Regularization, Feature Engineering, Model Evaluation
- **Libraries/Frameworks** Scikit-learn, NumPy, Pandas, NLTK, Sentence-Transformers, Flask, FastAPI

### EXPERIENCE

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#### Quant AI Intern (Full Time)

#### Fidura AI

Remote, India | October 2025 to Present

- Developed a production-grade RAG system to extract 19 structured fields from tender PDFs, combining hybrid retrieval (sentence-transformers + pgvector keyword boosting), robust Docling/PyMuPDF ingestion, and bounded-concurrency LLM extraction with page-level provenance.
- Engineered 1 AI agent orchestrator using LangGraph to automate complex quantitative workflows, from research to simulated execution.
- Generated 5+ backend REST APIs (FastAPI) that allow the agent to connect to and control the financial tools.
- 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

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#### VidQuery – AI YouTube Video Assistant

- Built a RAG-based Streamlit app enabling real-time Q&A over YouTube videos in under 5 seconds using Gemini Flash.
- Tech: Python, LangChain, Gemini, Hugging Face, Sentence-Transformers, ChromaDB.
- [GitHub](#) | [Live Demo](#)

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

- Developed 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](#)

### EDUCATION

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

Visakhapatnam, India  
August 2023 to Present

### CO-CURRICULAR ACTIVITIES

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- Qualified for Smart India Hackathon (SIH) 2025 (Internal Round)
- Serving as Co-Lead of Machine Learning and Artificial Intelligence at GitHub Community GITAM