

Gokul Sree Chandra Polavarapu

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EDUCATION

- **Gandhi Institute of Technology and Management (GITAM)** Visakhapatnam, India
Bachelor of Technology in Computer Science and Engineering (3rd Year) August 2023 - Present

TECHNICAL SKILLS

- **Programming Languages** Python, SQL (Joins, Subqueries, Window Functions, Indexing, Query Optimization)
- **GenAI and LLMs** LangChain, Retrieval-Augmented Generation (RAG), Prompt Engineering, Hugging Face, Transformers, LLM APIs (Google Gemini, Groq, OpenAI), Flask-based AI Deployment
- **Deep Learning** Transformer Architecture, Encoder-Decoder Models, Fine-Tuning, Neural Network Architectures, Activation Functions, Loss Functions, Optimization (PyTorch)
- **Machine Learning** Supervised Learning (Regression, Classification), Regularization (L1 & L2), Feature Engineering, Model Evaluation (Cross-validation, Accuracy, Precision, Recall, F1), Data Preprocessing (Normalization, Standardization, Missing Data Handling), Probability & Statistics
- **Natural Language Processing** Sentence Transformers (Embedding Generation), Tokenization, TF-IDF, Bag of Words, Stemming, Lemmatization, Text Classification, Summarization.
- **Libraries/Frameworks** PyTorch, Scikit-learn, Numpy, Pandas (Data Cleaning), NLTK, Sentence Transformers, Flask

EXPERIENCE

- **Young Compete - Technical Internship (Full Time)** July 2024 - January 2025
Head Of Operations Remote, India
 - Developed 3+ tech projects, including Prof Connect, enabling streamlined 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 team of 10 members to deliver technical solutions , focusing on engagement and community building.

PROJECTS

- **1. VidQuery – AI YouTube Video Assistant**
 - Engineered a RAG-powered app with LangChain, ChromaDB, and FastAPI to process video transcripts and deliver context-aware answers.
 - Allows users to instantly get answers to any questions they have from a YouTube video.
 - Designed an interactive Streamlit UI that lets users query YouTube videos in real time and get answers using the Gemini Flash model.
 - [GitHub Link](#) | [It's Live , Try it out!](#)
- **2. Blaze - AI Web Page Summarizer**
 - Developed a full-stack AI Chrome extension front-end and a Python/Flask back-end to provide on-demand summaries of any webpage using the Google Gemini API.
 - Engineered a Map-Reduce strategy with LangChain to process long documents exceeding the context limits of Large Language Models.
 - Implemented intelligent request handling with calculated pauses to operate within the strict rate limits of the Google Gemini free-tier API.
 - Currently extending the project into an interactive chatbot for deeper engagement – (Ongoing Project).
 - Technologies used: Python, Flask, LangChain, Google Gemini API, JavaScript, HTML.
 - [Demo Video On LinkedIn](#)

CO-CURRICULAR ACTIVITIES

- Participated in GDG (Google Developer Group) WOW 2025 Hackathon — built backend API for “Mama – Mind,” an AI app for pregnant women with ChatGPT support.
- Competed in national-level events like IIT Kanpur’s Techkriti (Maneuver Bot, Astro Quiz) and ISRO’s Bharatiya Antariksh Hackathon (Lunar Crater Locator), among 50+ teams.

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