

Gokul Sree Chandra Polavarapu

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PORTFOLIO - [GokulAIx](#)

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 Technical 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 which allows users to instantly get answers to any questions they have from a YouTube video within seconds.
 - Designed an interactive Streamlit UI that lets users query YouTube videos in real time and get answers using the Gemini Flash model.
 - Tech Stack: Python, LangChain, Google Gemini, Hugging Face, Sentence-Transformers (all-MiniLM-L6-v2), ChromaDB, Streamlit, Youtube Transcripts API module.
 - [GitHub Link](#) | [It's Live , Try it out!](#)
- **2. Blaze - AI Web Page Summarizer and ChatBot - Chrome Extension**
 - A multi-functional AI browser extension providing instant summarization and enabling users to ask in-depth questions about any webpage's content.
 - This tool leverages a custom-built RAG pipeline and a Python/Flask API to deliver precise, AI-driven insights directly in the browser.
 - Implemented Map-Reduce for efficient Web-Page summarization, and ChromaDB for Vector Store.
 - Tech Stack: Python, LangChain, Google Gemini, Hugging Face, ChromaDB, JavaScript.
 - [GitHub](#)
 - [Demo Video On LinkedIn](#)

CO-CURRICULAR ACTIVITIES

- Co-Lead OF Machine Learning and Artificial Intelligence at Github community Gitam.
- Participated in GDG (Google Developer Group) WOW 2025 Hackathon - contributed to the backend API for “Mama – Mind,” an AI app for pregnant women with ChatGPT support.