

# Gokul Sree Chandra Polavarapu

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## EDUCATION

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

## TECHNICAL SKILLS

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- **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

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- **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

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- **1. 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](#)
- **2. SkillCheck – AI-Based Skills Evaluator:**
  - Developed a Flask-based web application utilizing Groq API to evaluate user skills and improve learning outcomes.
  - Integrated a Large Language Model (LLM) via Groq API, providing personalized AI-driven feedback that enabled learners to check where they went wrong , 100% of the time and correct their errors.
  - Used Flask for backend, Pandas for data preprocessing, and Groq API for LLM integration.
  - [GitHub Link](#)   [Demo Video](#)

## CO-CURRICULAR ACTIVITIES

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- 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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