

NETHAJI REDDY ATERGU

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SUMMARY

Undergraduate student pursuing a B.Tech in Computer Science with a strong foundation in software engineering and hands-on experience in web development. Skilled in applying Generative AI technologies to real-world projects, seeking a software engineering internship to contribute to innovative teams and further enhance my skills.

TECHNICAL SKILLS

Programming Languages: Java, C/C++, Python, JavaScript

Databases: MySQL, MongoDB

Frameworks and Technologies: Express, React, NodeJS, Flask, Django, FastAPI

Deep Learning and Generative AI: NLP, LLMs, RAG model

DevOps and Cloud: Git, GitHub, Jenkins, Docker, Kubernetes, AWS

EDUCATION

B.Tech, Computer Science and Engineering(AIML)

Graduating May 2026

Jawaharlal Nehru Technological University Hyderabad

9.12 CGPA

Keshav Memorial Institute of Technology

Relevant coursework: Data Structures and Algorithms, Operating Systems, DBMS, Software Engineering, Computer Networks, Cloud Computing, Intro to Machine Learning, Deep Learning for Vision Systems.

PROJECTS

Agri LLM - Chat Application:

Designed and developed a prototype system to help ICAR-CRIDA staff answer queries from higher officials by querying annual reports using a Large Language Model. Implemented a Retrieval-Augmented Generation (RAG) pipeline populated with domain-specific data. Built multilingual support starting with English, with plans for Hindi integration. Integrated into a MERN-based chatbot web interface for seamless access.

Tech Stack: React, Express, MongoDB, Python, FastAPI, BART, Gemini API.

UNIVOX AI Powered Multilingual Voice Cloning for YouTube

UNIVOX is an AI-powered voice cloning system that translates YouTube videos into multiple languages while preserving the speaker's voice. It leverages speech recognition, transcription, and synthesis to eliminate language barriers, enabling seamless global content accessibility.

Tech Stack: React, Express, Python, FastAPI, RVC, Google Speech Recognition, gTTS, MoviePy, Hugging Face Space.

AI Powered SEO Optimization for YouTube Video Content

This project focuses on enhancing video SEO using AI by extracting text from existing videos, analyzing video data, and generating optimized descriptions with relevant keywords, hashtags, and links. It also provides keyword suggestions to improve YouTube video rankings, making content more accessible and visible globally.

Tech Stack: React, Express, MongoDB, Python, FastAPI, Key BERT, YouTube API.

ACHIEVEMENTS

Eureka 2025 Semi-Finalist

Contributed as the core member of the Univox project, collaborating on both frontend and backend development. Played a key role in achieving semi-finalist status at the Eureka Business Model Summit 2025 at IIT Bombay (Top 150 out of 25,000 applicants).