

# SWETHA MODALA

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## SUMMARY

Final-year B.Tech(CSE) student skilled in Python, Java, SQL, and web technologies, with experience in AI/ML projects like an AI-Based Study Assistant and Real-Time Voice Translator. Passionate about artificial intelligence and eager to contribute to real-world AI/ML and data-driven projects.

## EDUCATION

**Bachelor of Technology | Computer Science and Engineering** 2022 - Present

Vignan Institute of Technology and Science | CGPA : 8.96/10 (present)

**Intermediate | MPC** 2020 - 2022

Gouthami Junior College | CGPA : 9.71/10

## SKILLS

- **Programming Languages:** Python, C, Java
- **Web Development:** HTML, CSS, Javascript
- **Databases:** MySQL, DBMS
- **Languages:** English, Telugu
- **Core Competencies:** Data Structures & Algorithms, OOP, Problem Solving

## PROJECTS

**AI-Based Study Assistant** 2023 - 2024

- Developed a Python AI study assistant using Tkinter, NLP, and rule-based chatbot to generate personalized study schedules, summarize text, and conduct interactive quizzes.
- Built a performance analytics dashboard to track learning progress, quiz scores, and study patterns, increasing student productivity.
- Implemented automated text summarization and quiz management, reducing manual planning effort and enhancing user engagement.

**Real-Time Voice Translator** 2022- 2023

- Developed a Python-based real-time multilingual voice translation application leveraging Google Translate API, SpeechRecognition, gTTS, and NLP techniques.
- Achieved 95% translation accuracy across 40+ languages and automated audio file handling, improving processing efficiency by 60%.
- Implemented continuous voice capture and real-time STT/TTS, reducing manual intervention by 80% and enabling seamless multi-user communication.

## CERTIFICATES

- Generative AI Tools Workshop – NxtWave (2024)
- Python – GUVI (2024)
- TCS iON Career Edge – Young Professional – TCS iON (2023)

## ACHIEVEMENTS

- Finalist - Smart India Hackathon 2025 (National-level innovation competition)
- CodeChef 1★ Rating - Competitive programming skills
- Member - Computer Society of India (CSI)
- Selected - Pragati Cohort 6, Infosys Springboard 2025