Snehith Ganga

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Education

Indian Institute of Information Technology	**Nov 2023 – May 2027**
Bachelor of Technology in Computer Science and Engineering	*Sri City, Andhra Pradesh*

Relevant Coursework

- Data Structures and Algorithms
- Object Oriented Programming
- Computer Architecture
- Operating Systems
- Computer and Communication Networks
- Theory of Computation
- Database Management System
- Information Retrieval
- Natural Language Processing

Projects

Collab Sync full-stack web development | *React, Node.js with Express, MongoDB* | **Link**   **Jan 2025 – May 2025**

- Architected and deployed a full-stack platform with React, Node.js, and MongoDB, featuring property listings, search filters, messaging, and user authentication.
- Implemented Redis caching, reducing backend response time by 30% and Swagger for interactive API documentation; tested endpoints using Jest and Supertest.
- Deployed frontend on Vercel and backend on Render, enabling seamless integration and scalability.

Retrieval-based Chat Bot for Andhra Pradesh Historical Kingdoms | Python, NLP | Link   **Jan 2024 – Mar 2024**

- Developed a **retrieval-based chatbot** capable of answering queries on the historical kingdoms of Andhra Pradesh.
- Implemented **error correction mechanisms** to improve usability and handle noisy user inputs.
- Applied **N-gram overlapping techniques** and **cosine similarity** to enhance query–document matching.
- Designed efficient retrieval algorithms for **faster and more accurate response generation**.

Fall Detection and Alert System for Limited Mobility People | IoT, ESP32, Blynk | **Link**   **Aug 2024 – Oct 2024**

- Built an **IoT-based wearable device** for fall detection using an **ESP32** microcontroller.
- Integrated **MPU6050 accelerometer & gyroscope sensor** to detect sudden motion patterns.
- Connected with the **Blynk IoT interface** to send real-time alerts to caregivers.
- Implemented **personalization features** and filtering techniques to **reduce false positives**.

Technical Skills

Languages: Java, C, C++, Python, Matlab, R, HTML/CSS, JavaScript, SQL
Developer Tools & Libraries: VS Code, Git, Numpy, Pandas, Matplotlib,
Technologies/Frameworks: GitHub, Node.js, Express.js, React.js
Databases: MySQL, MongoDB

Certifications

The Science of Well-Being for Teens - from Coursera	Jan 2025 – Mar 2026
Learning How to Learn: Powerful mental tools - from Coursera	Aug 2025 – Oct 2026

Leadership / Extracurricular

Clubs	**Monsoon 2023 – Spring 2024**

- Former Member of Connexion@2023&2024
- Former Member of Beatreaperz@2024
- Took initiative to volunteer for Abhisarga and Convocation