CHALUVADI VENKATA SNEHITHA

📞 +91 6300384492 ✉ snehithachaluvadi@gmail.com in LinkedIn ⌨ GitHub

Education

Vellore Institute of Technology	**Sept 2022 – Present**
B.Tech in Computer Science and Engineering; CGPA: 8.78	*Chennai, India*

Narayana Junior College	**2020 – 2022**
Senior Secondary (State Board), 92.8%	*Ongole, AP*

Saibaba Central School	**2019 – 2020**
CBSE (X), 93.8%	*Ongole, AP*

Experience

Tech Lead Intern   **May 2025 – July 2025**
Viswam.AI (joint initiative by Swecha & IIITH)   *Hyderabad, Telengana*
- Led development of AI pipelines using Python, Natural Language Processing (NLP), and Transformer architectures.
- Guided and participated in training and fine-tuning state-of-the-art AI models.
- Collaborated with peers to design community-centric AI solutions supporting linguistic diversity.

Ethnus   **June – July 2024**
MERN Full Stack Development Intern   *Website*
- Built and deployed a full-stack Online Auction Platform using MongoDB, Express, ReactJS, and NodeJS.
- Created REST APIs for item and bid management, secured user access with JWT-based authentication.
- Conducted comprehensive API testing, validating functionality, error handling, and edge-case scenarios.

Projects

Assistive Traffic Light System   **Nov 2023**
- Developed an Arduino-based system using buzzers and timers to guide visually impaired individuals at road crossings.
- Programmed embedded C logic for synchronized audio signals with traffic light phases, improving pedestrian safety.

Fire Safety System with Alerting   **Nov 2024**
- Built an automated fire detection system using flame and smoke sensors, relay modules, and GSM module.
- Triggered water sprinklers and sent real-time SMS alerts with location and timestamps upon hazard detection.

HCI-Based Restaurant System   **Mar – Apr 2025**
- Designed a web-based restaurant interface for dynamic menu browsing, table booking, and feedback submission.
- Applied HCI usability heuristics to ensure accessibility and optimized layout for mobile and desktop platforms.

Solar-Powered IoT Street Light   **Mar – Apr 2025**
- Created an energy-efficient lighting solution using LDR sensors, rechargeable batteries, and solar panels.
- Automated switching logic based on ambient light and enhanced sustainability for remote locations.

Maze Solving Robot (Nav Bot)   **April 2025**
- Developed a robot using Arduino and Raspberry Pi to autonomously solve mazes using PID control and sensor data.
- Integrated IR and ultrasonic sensors for line following and obstacle detection; reduced pathfinding time by 40%.

Intern-Task-Timeline-Tracker-streamlit (GitHub)   **June 2025**
- A Streamlit-powered task timeline tracker that lets interns log, visualize, and monitor their assignments across a dynamic timeline interface.
- Built with Python, Streamlit, and SMTP for real-time notifications and secure logging.

Technical Skills

Languages: C, C++, Java, Python, JavaScript, HTML, CSS, R
Frameworks/Tools: ReactJS, Node.js, Express, MongoDB, Git, Arduino IDE, Postman
Concepts: Authentication, REST APIs, Full-Stack Development, IoT Systems, Embedded Programming, HCI

Certifications

- Completed MERN Stack Internship – Ethnus (6 weeks)
- Cryptography I – Stanford University (Coursera): AES, RSA, SHA-256
- "A" Certificate – NCC (National Cadet Corps); Pre-RDC Qualified