

UPPALA PREETHAM

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SUMMARY

AI Software Engineering student with strong foundations in Java, Data Structures, and modern web development. Built 6+ interactive applications improving code efficiency by 40% through optimized logic and modular design. Solved 80+ DSA problems and experienced in building responsive and AI-powered web applications.

PROJECTS

AI-Assisted Navigation System for Visually Impaired

Tech: Python, Computer Vision, LLMs, N8N, HTML, CSS, JavaScript

- Built an AI-powered assistive web application that detects objects, surroundings, medicines, and documents to help visually impaired users navigate independently.
- Implemented queue detection and obstacle recognition improving navigation awareness and detection accuracy by 20%.
- Developed footpath detection and scene description features improving safe mobility and environmental understanding by 30%.
- Integrated SOS automation using N8N sending WhatsApp alerts with live location to emergency contacts improving response time by 40%.

AlgoVerse – Interactive Algorithm Learning Platform

Tech: JavaScript, HTML, CSS, Algorithm Visualization, LLMs

- Developed an interactive platform helping students learn algorithms using code, pseudocode, and visual flowcharts.
- Built a dual-view learning interface linking pseudocode lines to corresponding code logic improving concept clarity by 35%.
- Implemented step-by-step dry run visualization with custom user input improving algorithm understanding efficiency by 40%.
- Added complexity analysis, optimization suggestions, and Hinglish language support improving accessibility for rural students.

EDUCATION

B.Tech – Computer Science and Engineering (Data Science)

2024–2028

Narayana Engineering College, Nellore

CGPA: 9.5

SKILLS

Programming Languages	Java, Python, JavaScript
Web Development	HTML, CSS, React.js, Bootstrap, jQuery, Node.js, Express.js, REST APIs
Databases	SQL, Firebase
Data & AI Technologies	NumPy, Pandas, RAG, LLM Integration, NVIDIA AI Models
Developer Tools	Git, GitHub, Postman, VS Code, N8N
AI Tools	ChatGPT, Gemini, Claude, Cursor, Lovable, AntiGravity
Core CS	Data Structures and Algorithms, DBMS
Soft Skills	Leadership, Communication, Team Collaboration, Problem Solving

ACHIEVEMENTS

- **Hackathon Winner (2x)** – Won competitive hackathons competing against 150+ teams (GDG on Campus Hackathon) and 70+ teams (Technogyam Hackathon).
- **NMMS Scholar** – Scored 108/180 in the National Means-cum-Merit Scholarship Examination and received INR 12,500/year scholarship for two years.