SUPREET VARDHAMANE

Second-Year Computer Science Undergraduate | Full-Stack Developer
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Portfolio • LinkedIn • GitHub

SUMMARY

Second-year Computer Science undergraduate at Siddaganga Institute of Technology with strong hands-on experience building full-stack web applications and software-integrated tools. Proficient in React, Node.js, Python, Flask, and REST APIs. Comfortable working across the entire stack — from database design to responsive frontends — with a focus on clean code, rapid prototyping, and delivering working products. Proven ability to ship end-to-end solutions under competitive hackathon conditions.

EDUCATION

Siddaganga Institute of Technology — Tumakuru, Karnataka *Sep 2024 – Aug 2028*
Bachelor of Engineering in Computer Science • *CGPA:* **9.65 / 10.0**

TECHNICAL SKILLS

Languages: Python, C++, JavaScript
Frameworks & Libraries: React, Node.js, Express.js, Flask, Vite
Databases: MongoDB, PostgreSQL, SQLite
Tools & Platforms: Git, GitHub, VS Code, REST APIs, OpenAI API, Postman
Competencies: Full-Stack Development, System Design, Clean Code

PROJECTS

Autonomous Study Agent | *Node.js, Express.js, MongoDB, OpenAI API, Vite/React* GitHub

- Built an AI-powered study planner that parses PDF content and generates personalised learning workflows using an agentic loop architecture (perceive → reason → plan → act).
- Developed a Vite/React frontend with interactive flashcards, MCQ tests, and a progress dashboard; implemented adaptive difficulty scoring (weak / medium / strong) based on real-time performance.
- Integrated OpenAI API with a fallback offline mock system, maintaining 100% application availability during API outages.

Smart Urban Management System | *Python, Flask, JavaScript, HTML/CSS* GitHub

- Built a civic issue-reporting platform enabling citizens to report and track urban infrastructure problems — potholes, drainage failures, and streetlight outages — backed by a RESTful Flask API.
- Engineered a custom priority-scoring algorithm incorporating urgency, geographic impact, and population density to optimise municipal response allocation.
- Designed a responsive, accessible UI for streamlined complaint submission and real-time issue status tracking.

Pragati — Women Career Re-Entry Platform | *Python, Flask, SQLite, Machine Learning* GitHub

- Architected a full-stack career support platform offering mentorship matching, structured learning modules, and personalised job recommendations for women re-entering the workforce.
- Built an ML-based recommendation engine to surface skill gaps and suggest targeted upskilling resources; implemented secure authentication and role-based access control.
- Designed responsive dashboards to track user progress, mentor activity, and course completion metrics.

HONORS & AWARDS

- Top 10 Finalist — Internal Smart India Hackathon (SIH) 2024, Siddaganga Institute of Technology
- Shortlisted Participant — IEEE WIE Code Hackathon 2024, Siddaganga Institute of Technology

CERTIFICATIONS

Operating Systems Basics — Cisco Networking Academy • View Certificate
Python (Basic) — HackerRank • View Certificate