

Chhavi

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Education

Vellore Institute of Technology

Sept 2022 – Jul 2026

BTech. Computer Science and Engineering CGPA: 8.53/10

Experience

Space Technology Intern | Indian Space Lab (ISRO-Backed)

Dec 2024-Jan 2025

- Completed advanced ISRO-certified training in satellite systems & drone technology, with a focus on remote sensing applications.
- Gained hands-on insight into the operational lifecycle of space-based data acquisition and analysis.

Research Intern | Blockchain for Nuclear Power Plants

Jun 2024-Present

- Designing a novel blockchain framework to increase operational security by **40%** for nuclear power plants.
- Developing a tamper-proof system to ensure immutable data logging and enhance protocol integrity.

Projects

VocalCart: AI-Powered Voice Commerce Platform | JavaScript, Python, Web Speech API

Apr 2025 - May 2025

- Revolutionized the e-commerce checkout experience, engineering a voice-first platform that reduced checkout time by 35% and enhanced accessibility.
- Architected a full-stack solution with a responsive React frontend and a high-performance Python/Flask backend, integrating Redis caching to support a 50% increase in concurrent users.
- Pioneered accessible UI/UX design, leveraging the Web Speech API to create a hands-free shopping experience, directly addressing user needs for speed and convenience.

AashiyanaHub: Immersive 3D Real Estate Platform | MERN Stack, Three.js

Jul 2024 - Feb 2025

- Drove a 30% increase in user engagement by building a dynamic property marketplace featuring immersive 3D tours and visualizations with Three.js.
- Streamlined internal operations by 40% through a custom admin dashboard with integrated data analytics (Chart.js), enabling data-driven decision-making.
- Ensured platform security and scalability by implementing a robust JWT authentication system with role-based access control for buyers, sellers, and administrators.

PDF Sage: Intelligent Document Interaction Tool | Python, LangChain, Streamlit, Google Gemini AI

Apr 2024 - May 2024

- Solved slow and inaccurate PDF data retrieval by developing an AI-powered application that achieved 35% more accurate text extraction and 50% faster processing for large files.
- Boosted user satisfaction by 40% by designing and deploying an intuitive Streamlit interface that simplified complex AI interactions for a non-technical user base.
- Guaranteed reliability under load through performance testing and load balancing, achieving 99.9% uptime and establishing a scalable foundation for user growth.

Achievements

- Leetcode:** 3-star 600+ problems on LeetCode | **GFG:** 450-day streak | **HackerRank:** 5 stars (C++).
- Smart India Hackathon:** Developed an AI chatbot for the Ministry of Jal Shakti during the Smart India Hackathon; the project advanced to the final round at college level, showcasing team work.

Technical Skills

- Languages:** C++ (5-star HackerRank), Python (Basic), Java (Intermediate), JavaScript
- Web Development:** MERN Stack (MongoDB, Express.js, React.js, Node.js), Next.js, MySQL
- AI/Cloud:** NLP (Natural Language Processing), Generative AI, AWS
- Tools:** Git, Figma, Blockchain

Extracurricular

- Leadership:** lead of the cultural team in the Rajasthani Club, organizing and mentoring various cultural events and coached peers in improving their work efficiency.
- Languages:** Hindi (Native), English (Fluent), French (Intermediate)
- Soft Skills:** Problem-Solving, Analytical Thinking, Agile Methodologies, Team Leadership.