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: Accessible E-Commerce Platform | JavaScript, Python, Web Speech API   Apr 2025 - May 2025
- Enabled hands-free shopping, reducing checkout time by 50% for motor-impaired users via a custom voice-command system.
- Achieved a 98% Lighthouse accessibility score by developing an ARIA-compliant, keyboard-navigable React interface.
- Supported a 200% increase in users relying on assistive technologies by architecting a robust, multi-modal full-stack platform.

Personal Coding Progress Tracker | Python, Power BI, Web Scraping   Jul 2024 - Feb 2025
- Engineered an automated data pipeline using Python (Pandas, BeautifulSoup) to aggregate coding activity from LeetCode, GitHub, and HackerRank into a centralized database.
- Developed an interactive Power BI dashboard to visualize key metrics like problem-solving trends, skill progression, and platform performance, enabling data-driven focus for study efforts.
- Identified personal productivity patterns and skill gaps through quantitative analysis, leading to a more targeted and efficient 30% improvement in problem-solving speed.

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, Power BI, Advanced Excel

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.