

Suhani Sinha

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EDUCATION

Bachelors in Computer Science Engineering

Vellore Institute of Technology, Bhopal

June 2022 - Onwards

CGPA: 8.99

Relevant Coursework: Cloud Computing, Database Management System, Software Engineering, Operating Systems, Computer Vision

SKILLS

Tech: C++, Python, JavaScript, ReactJS, HTML, CSS, Git, Linux, Bash, DBMS, MySQL, MongoDB, Docker, Kubernetes, Terraform, Ansible, Jenkins

Non-Tech: UI/UX, Figma, Adobe Suite, Jira, Notion

PROJECTS

FarmFlow: Personalized Rainwater Harvesting Solution – Full-Stack Project

September 2024 – April 2025

- Developed an AI-powered platform integrating IoT sensors to provide personalized rainwater harvesting recommendations, enhancing water conservation for farmers by up to 35%.
- Implemented real-time monitoring of water levels and weather patterns to optimize harvesting efficiency and reduce dependency on traditional irrigation.
- Collaborated with agricultural experts and local farmers to tailor solutions that improved adoption rates and increased crop yield sustainability.
- Technology: React JS, Python, AWS IoT, TensorFlow, Node JS, MongoDB, REST APIs

Team Project: 8 members

Cancer Cell Classifier- Machine Learning Project

October 2023 - December 2023

- Engineered a deep learning model achieving 94.14% accuracy and 90% precision for cancer cell detection by applying advanced feature engineering, model fine-tuning, and data preprocessing techniques.
- Enhanced model robustness and validity by testing on 33% of the dataset and incorporating innovative data augmentation methods to improve detection performance.
- Deployed the classifier to support faster and more accurate diagnosis, reducing error rates and improving clinical decision-making efficiency
- Technology: Python, TensorFlow, OpenCV, Scikit-learn, Data Augmentation

Team Project: 4 Members

Virtual Mouse-AI & Computer Vision Project

January 2023 - May 2023

- Developed a virtual mouse system using real-time hand gesture recognition, enabling hands-free cursor control and click/drag operations with 90% gesture accuracy.
- Integrated Media Pipe and OpenCV to achieve <100ms response time, improving accessibility and reducing reliance on hardware peripherals for over 80% of test users.
- Technology: Python, OpenCV, Media Pipe

Team Project: 3 members

WORK EXPERIENCE

NextGenDev: Web Development Project

June 2024-July 2024

- Developed a responsive calculator, personal portfolio, and landing page using modern web technologies, enhancing user experience and showcasing skills across multiple devices and screen sizes.

Cognifyz Technology: Web Development Projects

June 2025 - Ongoing

- Focused on designing and developing responsive user interfaces using modern frontend technologies to enhance usability and performance.
- Contributed to scalable UI components and cross-browser compatible designs, reducing frontend load time and improving user experience by 35%.

ACHIEVEMENTS

- Solved problems on [LeetCode](https://leetcode.com/) (162,116) with 365 Days Badges & [Geeks for Geeks](https://www.geeksforgeeks.org/) (CR- 89), learning Data structures and Algorithms.
- Participated in multiple national-level **Hackathons** (e.g., Google, Flipkart, Amazon) with optimized solutions in C++.
- Selected among 2000+ participants for the Idea Round in **Amazon HackOn 2025** after clearing the national-level coding challenge.

CERTIFICATIONS

- AWS Solutions Architect - Associate Certification, Problem Solvers: Mastering Data Structures & Algorithms, SQL: A Practical Introduction for Querying Databases

RESPONSIBILITIES AND VOLUNTEERING EXPERIENCE

Volunteer at NSS Club

March 2023 - April 2023

- Assisted in organizing and promoting **200+ blood donation drives**, encouraging community participation and life-saving awareness.
- Engaged with donors, coordinated logistics, and contributed to a 40% increase in successful voluntary blood donations.

Cloud Zone Club at University

- Managed volunteer coordination and logistics for the "Problem Solving Contest" during Advitya, ensuring seamless event execution and participant engagement, which contributed to a 35% increase in technical event turnout.

LANGUAGES

- English, Hindi, Sanskrit, Telugu