

SAHIL SUREKA

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LinkedIn

Github

EDUCATION

Vellore Institute of Technology (VIT), Vellore

B.Tech in Computer Science

August 2023 – Present

CGPA: 9.11 — Vellore, Tamil Nadu

Mother's Public School, Bhubaneswar

Higher Secondary Education – CBSE

April 2021 – March 2023

Bhubaneswar, Odisha

SKILLS

Languages: Python, Java, C, C++, JavaScript, HTML, CSS

AI/ML: Deep Learning (TensorFlow, PyTorch), NLP (Transformers, LangChain), Data Science (Pandas, Scikit-learn)

Technologies/Frameworks: Git, GitHub, ReactJS, NodeJS, ExpressJS, Thunder Client, LangGraph

Databases: MongoDB, PostgreSQL, Firebase, SQLite

Soft Skills: Leadership, Event Management, Writing, Public Speaking

EXPERIENCE

HCL Technologies Ltd | Frontend Intern

May 2025 – July 2025

- Built and deployed a Simon Game web application to engage users during outages, boosting retention by 15%.
- Engineered frontend with HTML, CSS, JavaScript, and React.js, optimizing responsiveness and usability.
- Optimized code structure and UI workflows, reducing load times by 20% and increasing interaction speed.
- Collaborated with a 4-member team to integrate design and functionality, ensuring 100% cross-browser compatibility.

PROJECTS

Harry Potter Language | Python, TypeScript, Node.js, VS Code Extension API, Git, GitHub, Azure DevOps

September 2025

- Launched an open-source VS Code extension for a custom language, gaining **147+ users & 133+ installs** in 30 days.
- Developed a Python interpreter from scratch with a lexer, parser, and AST to execute a unique, themed syntax.
- Implemented a rich IDE experience using TypeScript, including syntax highlighting, auto-completion, and code execution.
- Led the full SDLC from design to deployment on GitHub, managing versioning and cross-platform compatibility.

DeepFake Detector | Python, Tensorflow, Flask, CNN, ViT

June 2025

- Fashioned a robust DeepFake detection model leveraging CNN (videos) and Vision Transformers (ViT) (images), decreasing analysis time by 20%.
- Refined the model's structure for peak output, attaining 70%+ accuracy and uplifting content authenticity.
- Released the solution via a user-facing Flask web interface, ensuring 100% accessibility for real-time content verification.

Face Recognition Attendance System | Python, OpenCV, face_recognition, CSV, Git

May 2025

- Devised a real-time face recognition system using OpenCV and face_recognition to automate attendance logging.
- Processed webcam video streams to identify faces, logging attendance with timestamps, cutting manual time by 90%.
- Configured the system to output attendance data into a CSV file, achieving 100% accuracy in tracking personnel presence.

ACTIVITIES

IEEE Professional Communication Society (IEEE-PCS), VIT Vellore

April 2025 – Present

General Secretary

- Led recruitment, increasing member engagement by **40%** and fostering a **collaborative environment**.
- Organized **10+ technical workshops, 5+ speaker sessions**, and multiple networking events, benefiting **500+ students**.
- Managed outreach and marketing, boosting event participation by **60%** through strategic promotions.

CERTIFICATIONS

Deep Learning Specialization – Andrew Ng, Coursera

GEN AI using IBM Watsonx - IBM

Microsoft Azure AI 900 – Microsoft