

SWATHI GOSWAMI

ASPIRING SOFTWARE ENGINEER

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[LinkedIn](#) | [GitHub](#) | [LeetCode](#) | [HackerRank](#)

PROFILE

Dynamic Computer Science student with strong fundamentals in Java, Python, and DSA. Experienced in building full-stack, ML, and blockchain-based systems, including an IEEE-published vaccine traceability solution. Delivered real-world AI and data-driven applications through internships. Fast learner with solid engineering discipline, focused on building scalable and reliable software.

EDUCATION

Bachelor of Engineering, Computer Science and Engineering
Sri Sai Ram Institute of Technology **CGPA: 8.55** (Till 6th Semester)

2022 - 2026

SKILLS

- Languages:** Java, C, Python, SQL
- Web & Backend:** FastAPI, Flask, REST APIs, MERN Stack (Beginner)
- Databases:** MySQL, MongoDB, ChromaDB (Vector DB)
- Machine Learning & AI:** scikit-learn, XGBoost, TensorFlow/Keras, OpenCV, RAG (LLM-based systems)
- Tools:** Git, GitHub, VS Code, Docker, Jupyter Notebook, Postman, Power BI, Google Colab
- Core CS:** Data Structures & Algorithms, OOP, OS, DBMS, Computer Networks, Software Engineering

EXPERIENCE

Data Science Intern

PRASUNET COMPANY

March – April 2025

Chennai, India

- Built an AI-powered e-commerce personalization system analyzing user behavior and purchase history.
- Developed a complete ML pipeline (preprocessing → feature engineering → training → evaluation).
- Improved product recommendation accuracy and user-level targeting using classification models.

Tech Stack: Python, Pandas, NumPy, scikit-learn, Matplotlib, Seaborn

Data Science Intern

NULLCLASS EDTECH PRIVATE LIMITED

June - July 2024

Chennai, India

- Developed an emotion detection system using TensorFlow and OpenCV.
- Built an interactive Tkinter GUI and optimized processing speed by 40%.

Tech Stack: Python, TensorFlow/Keras, OpenCV, Flask, Tkinter

PROJECTS AND PUBLICATION

IMMULINK: Blockchain & IoT-Driven Vaccine Supply Chain

- Built a smart-contract and IoT-driven vaccine traceability system improving transparency by 40%.
- Published in IEEE Xplore (Oct 2024).
- Tech Stack:** Solidity, Ethereum Smart Contracts, React, Gemini-2.5

Published at: [IEEE Xplore](#)

Digit Recognition using CNN and Real-Time Webcam Integration

- Built a real-time digit recognition system using MNIST + OpenCV.
- Tech Stack:** Python, TensorFlow, OpenCV, NumPy, Matplotlib

GitHub Link: [Project](#)

SmartChatbot_02 – RAG-Based AI Chatbot for DSA Documentation

- Developed a retrieval-augmented chatbot using FastAPI + ChromaDB + local LLM (Ollama) for custom DSA docs.
- Tech Stack:** Python, FastAPI, Flask, ChromaDB, Ollama, Docker

GitHub Link: [smartchatbot_02](#) Deploy link: [Deploy](#)

Churn Prediction System – End-to-End ML + Web App for Customer Attrition Risk

- Built an end-to-end churn prediction pipeline with FastAPI + Flask UI.
- Tech Stack:** Python, Pandas, scikit-learn, XGBoost, FastAPI, Flask, Docker, Joblib, HTML/CSS

GitHub Link: [churn_prediction](#)

Computer Vision – Image Processing & Object Classification System

- Developed an ML pipeline for classical CV tasks using OpenCV and scikit-learn.
- **Tech Stack:** Python, OpenCV, NumPy, Pandas, scikit-learn

GitHub Link: [Computer Vision](#) Deploy Link: [Deploy](#)

ACHIEVEMENTS

- Published Research Paper — IEEE Xplore (2024): Immulink: Blockchain-Based Vaccine Supply Chain.
- Leadership: Conducted C & Python training sessions for 250+ juniors in Code Club.
- HackerRank Gold Badge — Java.
- Solved 100+ problems on LeetCode.
- Completed courses on NPTEL, edX, CISCO, GUJI.