

# SWATHI GOSWAMI

ASPIRING SOFTWARE ENGINEER

Contact: +91 8610346885 | [swathigoswami04@gmail.com](mailto:swathigoswami04@gmail.com) | Chennai 600059, India  
[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 6<sup>th</sup> 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, GUVI.