# PRAGALYA T

✉ pragalya2410606@ssn.edu.in
📍 Pattukottai-India

📞 99763986516

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## Profile

2nd-year Btech, IT student skilled in Python, C (Data Structures), and Java. Built real-world projects including AI based crop recommendation for farmers with extra features and created a mentor-mentee interaction dashboard.Passionate about coding, problem-solving, and creating impactful tech solutions. Seeking internship opportunities to contribute and grow.

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## Education

**2024 – 2028**
Chennai,India

### Bachelor Of Technology (Information Technology)
### CGPA:8.1/10 (upto 3rd sem)

*Sri Sivasubramaniya Nadar College Of Engineering*
Relevant Coursework: Data Structures & Algorithms, Object Oriented Programming, Database Management System

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## Technical Skills and Interests

- Languages:C, Python, Java,HTML+CSS, JavaScript
- Databases: Oracle SQL
- Tools: Figma, GitHub,VS Code
- Areas of Interest: Web Development, Software       Engineering,Machine Learning, AI, DBMS
- Soft Skills: Problem Solving, Self-Learning, Adaptability, Time Management, Teamwork
- Certificates:google cloud- Generative AI,IBM skill bulid cerified for AI.

# Projects

## Mentor–Mentee Interaction Dashboard (Full–Stack Web Application)

- Developed a responsive and user-friendly frontend for an mentor-mentee interaction using **HTML5, CSS,Bootstrap and JavaScript**
- Designed and implemented key UI components:login and sign up page,attendance Tracking for mentor page,Immediate scheduling of meeting for mentor with mentee.
- Ensured seamless users experience across desktop and mobile devices with clean, modern design and smooth animations
- Collaborated with backend teammates

## AI Based Crop Recommendation For Farmers:

- Developed a **hyper-local AI-based crop recommendation web application** tailored for Tamil Nadu farmers using district-specific agricultural data.
- Implemented **client-side computer vision (HSV color-space analysis)** on drone images to detect crop stress areas and intelligently guide soil sampling.
- Built a **bilingual (English/Tamil) voice-enabled interface** using Google Cloud **Speech-to-Text and Text-to-Speech APIs** to improve accessibility for rural users.
- Designed a **UTF-8 encoded regional dataset** to eliminate data corruption issues and ensure accurate Tamil language rendering.
- Generated **seasonal and year-round crop recommendations** with a one-click shareable report for farmers.

## Student Attendance Management System:

*Tools used:Java | JavaFX | Hibernate | Oracle 21c*

- Developed a **real-time attendance management system** to automate student attendance tracking in educational institutions.
- Built a **JavaFX-based user interface** for course selection, student listing, and attendance marking.
- Implemented **Hibernate ORM** for efficient data persistence and seamless interaction with an Oracle database.
- Designed a **normalized (3NF) relational database schema** ensuring data integrity and minimal redundancy.
- Generated **course-wise attendance reports** with student and date details.