

# SAKTHI J

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## Profile Summary

- Detail-oriented and enthusiastic Computer Science student with hands-on experience in web development, and machine learning. Skilled in HTML, CSS, JavaScript, React, Python,. Familiar with frameworks such as Flask and tools like Git, Figma, and VS Code. Strong foundation in data structures, algorithms, and software development. Actively seeking opportunities to apply technical skills in dynamic and growth-oriented environments.

## Projects

### Smart India Hackathon-AI-powered Railmadad

[github-Railmadad](#) [🔗](#)

- Developed an AI-powered grievance redressal system using Flask, GPT (Gemini API), and YOLOv8 to automate complaint registration, categorization, and routing based on text, image, and video inputs.
- Implemented OCR (Tesseract) and sentiment analysis to extract complaint details and assess urgency, improving complaint triage accuracy and reducing manual intervention by over 70

### AI-Powered-Smart-Traffic-Management-System

[github-Signal optimization](#) [🔗](#)

- Constructed an AI-powered traffic management system using Python and YOLOv8 to simulate real-time traffic scenarios and optimize traffic light control based on vehicle detection.
- Executed computer vision techniques to detect and count vehicles from live video feeds, enabling dynamic traffic signal adjustment and congestion reduction.

## Technical Skills

**Programming languages:** Java, Python, HTML, CSS

**Databases:** MySQL, MongoDB

**Tools & Technologies:** : React, SQL, Express.js, Figma, Node.js, Visual studio

**Soft Skills:** Problem Solving, Self-Learning, Adaptability, Team Collaboration, Attention to Detail, Time Management

**Version Control:** GitHub

## Internships

### Mernstack Developer

*Afame Technologies*

*Remote*

*December-January 2024*

- Built an full-stack Event Management System using ReactJS for a dynamic user interface and NodeJS/ExpressJS for scalable server-side APIs.
- Integrated MongoDB to store event details, user registrations, and feedback, enabling real-time Application

### FullStack Developer

*Dc infotech*

*Remote*

*November-February 2024*

- Designed a Django-based Employment Management System to manage employee records, job roles, departments, and leave applications with role-based access control.
- Establish CRUD operations, user authentication, and admin dashboards, ensuring secure data handling and streamlined HR workflows.

## Achievements

Secured 3rd place in project expo [Profile](#) [🔗](#)

LeetCode: [Profile](#) [🔗](#)

HackerRank:Badge Holder [Profile](#) [🔗](#)

GeeksForGeeks: [Profile](#) [🔗](#)

## Certifications

Java Certified, Generative AI, The joy of computing python-Nptel, Programming in java-Nptel, Introduction to MongoDB, and more [here](#) [🔗](#).

## Education

PSNA College of Engineering and Technology

*Bachelor of Engineering - Computer Science and Engineering*

**2022-Present**

**CGPA 8.0**