SAKTHI J

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Education

PSNA College of Engineering and Technology	**2022-Present**
Bachelor of Engineering - Computer Science and Engineering	**CGPA 8.0**
Cheran Vidhyalaya Matric Hr. Sec. School	**2021-2022**
HSC - Biomaths	**Score 90%**

Projects

Smart India Hackathon-AI-powered Railmadad *github-Railmadad* ↗

Developed an intelligent grievance redressal system by Indian Railways' RailMadad platform

○ Designed and 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

Developed an AI-powered traffic management system for signal optimization.

github-Signal optimization ↗

○ Developed 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.

○ Implemented computer vision techniques to detect and count vehicles from live video feeds, enabling dynamic traffic signal adjustment and congestion reduction.

Internships

Web Developer Intern
Technohack

Remote
July-August 2024

○ Successfully completed a hands-on web development internship focused on building interactive and responsive websites using HTML, CSS, and JavaScript.

○ Developed multiple front-end projects including a Login Page, Calculator and Registration Form demonstrating strong understanding of UI/UX principles.

Mernstack Developer Intern
Afame Technologies

Remote
December-January 2024

○ Developed a 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 CRUD operations and secure data handling.

FullStack Developer Intern
Dc infotech

Remote
November-February 2024

○ Designed and developed a Django-based Employment Management System to manage employee records, job roles, departments, and leave applications with role-based access control.

○ Implemented CRUD operations, user authentication, and admin dashboards, ensuring secure data handling and streamlined HR workflows.

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

Achievements

Runner 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 ↗.