

# A S SENTHIL VELAN



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## EDUCATION

B.E. Computer Science Engineering, *Chennai Institute of Technology*  
CGPA: 8.14

2023-Present

## SKILLS

**Web Development:** - React.js, TailwindCSS, HTML, CSS, JavaScript, Fast API, Express.js, Node.js

**App Development:** - Android Studio

**Programming Languages:** - Python, C++, SQL, Mongo DB

## PROJECTS

### 1.E-Commerce Online Shop,

May,2024

- Designed and developed an e-commerce website for selling organic vegetables, using HTML, CSS, and JavaScript.
- Implemented user registration and login functionality, enhancing user experience and security.
- Created a dynamic shop page for browsing and purchasing products, along with a cart system for order management.
- Developed a customer care page to provide support and improve customer service.

### 2.Indian Currency Identifier for Visually Impaired People,

September,2024

- Developed a robust model to recognize Indian currency notes using Convolutional Neural Networks (CNN) for accurate banknote identification.
- Optimized the model with TensorFlow Lite quantization for mobile deployment, ensuring real-time recognition on low-power devices.
- Chose this project based on a problem statement from the RBI hackathon, addressing accessibility challenges for visually impaired users.

### 3.WhatsApp Chatbot for Physiotherapy,

Nov,2024

- Developed a WhatsApp chatbot integrating Gemini AI for pain assessment & diagnosis
- Designed JSON-based chatbot flow to recommend exercises and analyze patient reports.
- Streamlined physiotherapy consultation, reducing response time significantly.

### AI-Based Traffic Violation Detection System

June 2025

- Developed a YOLOv8-based real-time system to detect helmet violations, seatbelt violations, over-speeding, and illegal parking using live CCTV feeds.
- Deployed on Jetson Nano for low-cost edge implementation suitable for rural and urban areas.
- Designed with a modular architecture for easy integration into smart city infrastructure and traffic management systems.

### An Intelligent Web-Based System for Automated Faculty Publication Summarization and Reporting

July 2025

- Built a web portal for faculty to submit their publication details, which are organized year-wise and automatically formatted into Word documents.
- Enabled auto-upload of generated documents into a central summary dashboard, supporting efficient institutional reporting and NAAC ranking preparation.

## INTERNSHIP EXPERIENCE

### 1.Intern- IITM Research Park -SHHC Private Ltd -URHAB

May 2024 - June 2024

- Learned web development technologies including HTML, CSS, JavaScript, Git, and GitHub.
- Developed e-commerce online shop for selling organic vegetables, integrating user registration, login, product browsing, shopping cart, and customer care features.

### 2. Intern - IIT Research Park - Aegle pro

November 2024 - December 2024

- Developed WhatsApp Flows:** Created and optimized JSON flows for treatment-related questions, enhancing user engagement.
- Integrated Gemini AI with WhatsApp:** Fully implemented Gemini AI capabilities into WhatsApp, improving response accuracy and efficiency. Enhanced user experience by enabling real-time interaction and automated responses. Streamlined the process of handling patient queries, reducing response time significantly.
- Chatbot Development:** Built a chatbot for the company's application, successfully integrating Gemini Physiotherapist AI. The chatbot provides exercise sets and reps, analyzes patient reports, offers diagnoses, and recommends consulting a physiotherapist for serious injuries.

## ACHIEVEMENTS

- Presenter @ICSCAN'24, an IEEE Conference**

December,2024

- DISTRICT-Level TABLE-TENNIS**

September,2019

## CERTIFICATIONS

1.Cisco Networking and Cyber Security    2. Udemy Machine Learning    3. Google Android Development

4.Coursera-Datastructures    5. MSME Python    6.Coursera-Algorithms on graphs.