

Shivam Sandip Chavan

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EDUCATION

Vellore Institute of Technology, Chennai

Bachelor of Technology in Computer Science and Engineering

CGPA:9.26

Aug 2023 – Jun 2027

EXPERIENCE

Product Intern | Ziga Infotech

Feb. 2025 - Present

- Developed a **Flutter application** that processes images to detect and count pipes using a **YOLO-based ML model**.
- Implemented real-time image processing, achieving **95% accuracy** in detecting and mapping pipes.
- Collaborated with a team to ensure seamless frontend-backend integration and optimize model performance for deployment.

Freelance Web Developer | Sakaar Homoeopathy Clinic

Jan. 2025

- Designed and developed a modern, responsive website for a confidential client's homoeopathy clinic using **HTML, CSS, Tailwind, and ReactJS**.
- Implemented a **user-friendly interface** to effectively showcase clinic information and services while ensuring a professional and visually appealing design.
- Optimized website performance and ensured **cross-device compatibility** for seamless user experience across desktops, tablets, and mobile devices.

PROJECTS

Wanderwise | AI-Powered Trip Planner

Feb 2025

- Built an **AI-driven travel planning app** that creates personalized itineraries based on user preferences, making trip-planning faster and easier.
- Developed a **responsive frontend** with ReactJS and used **Supabase** for efficient backend and data management.
- Integrated **real-time APIs** like Pexels, OpenRoute Service, and Nominatim for travel data, route optimization, and visual content.

Delhi Transit | Bus Scheduling and Route Management System

Aug 2024

- Developed a **full-stack web application** using ReactJS, Node.js, and MySQL to automate bus scheduling and route management for Delhi Transport Corporation.
- Implemented an **efficient driver shift assignment algorithm** ensuring balanced workloads and minimizing idle time.
- Enhanced system security and user management with **Firebase authentication**, improving access control and data integrity.

PUBLICATIONS

System And Method For Autonomous Navigation Of Vehicle | ID: 202541013968

Mar 2025

- Developed an **autonomous self-driving car** using computer vision, leveraging **lane detection, YOLO-based object recognition**, and **low-latency processing pipelines** for real-time obstacle avoidance and decision-making, minimizing hardware costs and enhancing safety and traffic flow.

Weather Forecasting using PySpark for IMD Data Analysis | WF-PySpark-2025

Feb 2025

- Built a **scalable weather forecasting model** with **75% accuracy** using PySpark, processing large IMD, AWS, and ARGS datasets with **ML algorithms** and **advanced analytical tools**, offering insights for agriculture and disaster relief.

TECHNICAL SKILLS

Languages: Java, C, C++, Python, JavaScript

Frameworks: ReactJS, Flutter, Flask, Tailwind

Libraries: TensorFlow, OpenCV, Keras

Developer Tools: GitHub, HTML, REST APIs, Kaggle, HuggingFace, Supabase, Firebase