

SAI RUTHWIK V.C.V.N

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PROFILE

Enthusiastic and forward-thinking Computer Science and Engineering student in the final year of study, passionate about developing scalable, intelligent, and user-friendly digital solutions. Experienced in full-stack development, machine learning, and automation, with projects spanning web applications, predictive analytics, and IoT-integrated safety systems. Well-versed in modern technologies including ReactJS, Flask, Python, SQL, and UiPath, with a growing passion for crafting seamless user interfaces that merge functionality with design. Strongly motivated to explore emerging fields in technology through postgraduate studies abroad and to translate innovative ideas into impactful, real-world systems that improve accessibility and user engagement.

EDUCATION

Bachelor of Technology (B.Tech) - Computer Science and Engineering

Nov 2022 - June 2026

Rajalakshmi Engineering College, Chennai, India.

- CGPA - **7.57 / 10**
- Coursework - Data Structures and Algorithms, Database Systems, Full-Stack Web Development, Artificial Intelligence, Machine Learning, and Computer Architecture.

Higher Secondary Education (Class XII)

2022

Narayana Olympiad School, Chennai, India.

- Central Board of Secondary Education (CBSE) | Percentage - **78%**
- Major Subjects - Mathematics, Physics, Chemistry, Computer Science

Secondary Education (Class X)

2020

Narayana eTechno-School, Chennai, India.

- Central Board of Secondary Education (CBSE) | Percentage - **92%**
- Major Subjects - Mathematics Standard, English, Hindi, Social Science, Science

ACADEMIC & PERSONAL PROJECTS

TravelMate – Smart India Hackathon 2024

Technologies: ReactJS, Flask, Python, MongoDB, IoT, Wearable Integration

- Developed a full-stack travel companion app connecting solo travelers with groups, integrating rental commerce for travel gear and real-time safety features.
- Enhanced user safety through SOS alerts, live location tracking, and interest-based group recommendations.

HAACKMEGADON 2024 (Internal Hackathon) – Smart Governance Using AI

Technologies: Python, Flask, NLP, Sentiment Analysis, Chatbot API, Firebase

- Designed an AI-powered civic platform for citizens to post and upvote local issues for government review.
- Integrated sentiment analysis and AI chatbot for intelligent engagement and concern prioritization.

IPL Match Winner Prediction – Machine Learning Project

Technologies: Python, Pandas, Scikit-learn, Random Forest,

- Built a predictive model analyzing player and venue statistics from past five IPL seasons to forecast match outcomes.
- Deployed a web dashboard enabling real-time match predictions with data visualization.

Transportation Feedback System – Cloud Computing Project (Microsoft Azure)

Technologies: ReactJS, Azure App Services, Python, GenAI

- Created a feedback system for passengers with modules for lost & found tracking and bus details management.
- Integrated a GenAI-based chatbot and hosted the solution on Azure for scalability and uptime reliability.

Attendance & Performance Tracking Automation – Advanced RPA + AI

Technologies: UiPath, Python, Excel Automation, AI Center

- Automated attendance and academic performance tracking to eliminate manual data entry.
- Integrated AI-based data classification and automated reporting workflows to improve efficiency.

E-Commerce Website for Grocery & Second-Hand Marketplace

Technologies: PHP, HTML, CSS, MySQL

- Designed and implemented an e-commerce platform supporting user login, cart, and order tracking.
- Ensured secure data transactions with optimized SQL queries and responsive front-end design.

Edge-Based Face Recognition System for Classroom Automation – AttendanceX (Ongoing)

Technologies: Raspberry Pi 5, TinyML, OpenCV, MTCNN, ArcFace, Python

- Developing an Edge AI-powered face recognition system for real-time classroom attendance using multi-camera synchronization.
- Implementing privacy-preserving, low-latency recognition with TinyML optimization for local computation.

PROFESSIONAL EXPERIENCE

Intern - Web Development Intern – Prodigy InfoTech

Mar 2024 – Apr 2024

- Gained hands-on experience in front-end and back-end web development, contributing to live projects under professional mentorship.
- Enhanced practical understanding of web technologies, coding standards, and deployment workflows through real-world development tasks.

TECHNICAL SKILLS

- **Programming:** Python, Java, Kotlin, C, SQL, JavaScript
- **Web Development:** React, Node.js, REST APIs, PHP
- **Data Science & ML:** Pandas, Scikit-learn, NLP, Librosa, Streamlit
- **Databases & Cloud:** MySQL, SQLite, MongoDB, Azure App Services
- **Tools:** GitHub, VS Code, Adobe Photoshop, Figma, UiPath

RESEARCH WORK

- “Edge-Based Face Recognition System for Classroom Automation” – Research Paper (Unpublished)
- “AI-Powered Smart Parking System” - Research Paper

AWARDS AND ACHIEVEMENTS

- District-Level Badminton Player
- Regional-Level Volleyball Player
- Regional-Level Handball Player

CERTIFICATIONS

- **IELTS** – Overall Band 7 (Listening 8.5, Reading 7, Speaking 6, Writing 7.5) (Aug 2025)
- **Internship** – Web Development Intern – Prodigy InfoTech
- **Introduction to Industry 4.0 and Industrial Internet of Things** – 76% (Elite) NPTEL (Nov 2024)
- *Automation Developer Associate Training (v2023.10) for ICT Academy* Design & Implementation of
- **Human-Computer Interfaces** – NPTEL (May 2025)

LANGUAGE

- ENGLISH (Fluent)
- TAMIL (Native)