R JOY SANDHIYA

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EDUCATION

Chennai Institute of Technology – Chennai
B.E. Electronics and Communication Engineering (2024 – 2028)   **CGPA**: **9.31**

PROFILE SUMMARY

Second-year Electronics and Communication Engineering student with a strong foundation in IoT, Data analytics, and web development. Enthusiastic about exploring interdisciplinary research in modern technologies such as AI, IoT, MRuby, and automation. Skilled in Python, C, SQL and front-end development, with hands-on experience in building projects that integrate hardware and software. Keen to contribute to research-driven projects and expand knowledge through guided mentorship.

SKILLS

Programming: Python (Advanced), C, JavaScript, SQL
Web Technologies: HTML, CSS, REST APIs, JSON
Frameworks & Tools: Flask, React (basic), Git, GitHub, Arduino IDE
Databases: MySQL, Firebase, MongoDB (basic)
AI/ML Exposure: ChatGPT API, Prompt Engineering (Basics)
Soft Skills: Problem-Solving, Communication, Self-Learning, Teamwork

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PROJECTS

AI-Based Agriculture Monitoring System | Python, IoT Sensors, Cloud APIs

- Integrated **moisture, humidity, CO_2, and rain sensors** to monitor environmental data.
- Implemented a **Python-based decision engine** for data-driven irrigation and crop management.
- Designed RESTful communication between hardware and cloud for live analytics.

NOVARIS – Unified Arts & Science Admission Portal | HTML, CSS, Tailwind, JS

- Built a responsive web portal to streamline admission workflows and student data management.
- Implemented API structures and form handling with a clean UI/UX design.

Chatbot Assistant | Python, Flask, OpenAI API

- Developed a simple chatbot prototype using **OpenAI GPT API**.
- Applied **prompt engineering** principles for context-aware responses.

Sign-to-Action Robotic Arm | ML, MRuby, Embedded Systems

- Designed gesture-controlled robotic arm translating **vision-based hand signs** into movements.
- Integrated AI/ML model for gesture recognition and control accuracy.

CERTIFICATIONS

- Data Analytics – **Deloitte**
- Analyzing IOT devices - **AWS**
- Microsoft Copilot - **Microsoft**
- Python-**IBM** SkillBuild
- Cyber Security Essentials-**CISCO**
- HTML, CSS, JavaScript – **LinkedIn** & Beginner Level
- Arduino Basics -**LinkedIn**
- CSS Fundamentals-**LinkedIn**

ACHIEVEMENTS & CO-CURRICULAR

- **India-level Winner** – Architecture Marvel (Public Speaking)
- **Ideathon- 2025 (**semi-finalist**)**
- **Podcaster**, **Interviewer**– IMPACT (CIT)
- **Reporter** – Connects (CIT)
- **Poem Writer & Creative Contributor to College Clubs**

INTERNSHIP

- **TVS Madurai- Data Analytics**

Data Analytics Intern – Sundaram Industries Pvt. Ltd (TVS), Madurai (May 2025 – June 2025)

- Worked on smart mold tracking and defect detection systems integrating **RFID, sensors, and ERP modules**.
- Developed automated data analytics dashboards to optimise production monitoring.
- Gained experience in **real-time data handling, visualisation, and process automation**.

LANGUAGES

English – Fluent **|** **Tamil** – Native **|** **Hindi** – Intermediate **|** **German** – Beginner

Malayalam – Conversational