

# Siddesh Sonawane

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Chennai, India

## EXPERIENCE

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### Project Xpress

*Business Development Intern*

Feb 2026 – Present

*Chennai, India*

- Worked on real-world software and AI-driven projects in a dynamic startup environment.
- Contributed to feature development, improving application performance and usability.
- Collaborated with cross-functional teams to optimize workflows and project delivery.
- Supported project coordination and web development tasks to enhance system efficiency.

### GirlScript Summer of Code

*Open Source Contributor*

May 2024

*India*

- Contributed to open-source projects by resolving issues and implementing new features.
- Used Git and GitHub for version control, collaboration, and pull request workflows.
- Enhanced code quality, documentation, and maintainability across repositories.

## PROJECTS

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### AI Carbon Footprint Calculator

- Built a full-stack TypeScript-based application to estimate CO<sub>2</sub> emissions from user lifestyle inputs.
- Implemented ML-inspired predictive logic with real-time simulation for environmental impact analysis.
- Designed scalable architecture for efficient data processing and user interaction.

### AI Traffic Prediction System

- Developed an AI-based adaptive traffic signal system using machine learning and real-time vehicle detection.
- Optimized traffic flow through congestion analysis and multi-model prediction techniques.
- Implemented dynamic signal control logic to improve traffic efficiency and decision-making.

### Digital Twin OS

- Developed a Digital Twin system using C++ and Python (Flask) to monitor real-time OS telemetry.
- Implemented ML models including LSTM, Isolation Forest, and Random Forest for anomaly detection.
- Enabled performance prediction and failure risk analysis for system optimization.

## EDUCATION

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### SRM Institute of Science and Technology (SRMIST)

*B.Tech in Computer Science (with AI & ML)*

2023 – Present

*Chennai, India*

## CERTIFICATIONS

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### SAP Certified Generative AI Developer

*Credential ID: 2e7c9229-d1a4-487e-ba6b-6b8930ba25aa*

Mar 2026

### IEEE Student Member

*IEEE Membership ID: 101084411*

2025

## SKILLS

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- Languages:** C, C++, Python, Java, TypeScript
- Frameworks/Technologies:** MERN Stack, Flask, FastAPI, REST APIs, Vite, Express.js
- AI/ML:** Machine Learning, Deep Learning, Generative AI, LSTM, Scikit-learn
- Tools:** Git, GitHub, Docker, AWS, Vercel