

Emmanuel Matthew J

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EDUCATION

B.Tech, Computer Science & Engineering Sri Manakula Vinayagar Engineering College	2023 - 2027
Senior Secondary (XII), Tamil Nadu State Board Science Petit Seminaire Higher Secondary School, Puducherry Percentage: 90.00%	2023

PROJECTS

[AI Smart Water Reporting & Monitoring App ↗](#) Feb 2025 - Mar 2025

Project Description
Water issues like flooding, pollution, drainage blockages, and pipe bursts are widespread and often unreported due to inefficient systems. The AI-Based Smart Water Monitoring & Reporting System is a Flutter mobile app that enables real-time reporting of such issues. It uses OpenStreetMap for location tracking, AI for image analysis and waste classification, and features a volunteer system to boost community involvement in water conservation and disaster response.

Key Features:

- Quick citizen reporting of water issues
- Faster authority response
- Real-time air quality monitoring
- AI-driven waste recognition
- Community engagement via rewards and volunteering

The app connects to a Flask backend that processes reports, stores data in a MySQL database, and delivers real-time updates to all users.

SKILLS

- | | | |
|------------|---------------|-----------------|
| • Flutter | • Firebase | • Java |
| • REST API | • React | • Microservices |
| • Django | • Spring Boot | • Dart |
| • iOS | • Android | |

ADDITIONAL DETAILS

- Secured a Top 3 position in the 1M1B sust-AI-nability Challenge 2025 with support from IBM SkillsBuild. Recognized for AI-driven solutions promoting sustainability and positive social impact.