Thiyagu

AI-Enabled Developer

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PROFILE

I am a student at VIT Vellore, currently pursuing my Master's degree in Artificial Intelligence after completing my undergraduate studies at the same institution. I have worked on several freelancing projects in web and app development, leveraging modern AI tools to enhance the development process.

SKILLS

AI-assisted development
Machine Learning
Deep Learning
Agentic AI Systems: LangChain
RAG
LLM

Web Development

React.js ,js
WordPress Development
SaaS Development

App Development
Android Studio (Java/Kotlin)
Flutter,React Native

CONNECTIONS

Linkdin

Portfolio

Gitup

PROFESSIONAL EXPERIENCE

Freelance Developer (During College) Self-Employed | Remote | Jan 2023 – Present

- Started freelancing during college, building web and mobile applications for clients.
- Developed e-commerce and portfolio websites using React and WordPress, optimized for performance and SEO.
- Built mobile applications using Android Studio and Flutter with focus on smooth UI/UX.
- Developed multiple full-stack SaaS applications from scratch, handling authentication, APIs, databases, and cloud deployment.
- Launched **QuickNote**, an AI-powered SaaS platform that reached **1,000+ visits and 50+ active users** during testing.
- Built an **AI-Based Snake Detection & Alert System** using deep learning and real-time monitoring.
- Currently i am managing **3+ live business Portfolios**.
- Delivered scalable client solutions while leveraging AI tools to improve development speed and quality.

EDUCATION

Masters in AI and ML
vellore institute of technology
Present | VIT Vellore

Bachelor of computer application
vellore institute of technology
2022 – 2025 | VIT Vellore

PROJECTS

AI-Driven Wildlife Intrusion Detection System Using YOLO and Roboflow
🎓 College Project VIT Vellore | 2025
Built a real-time snake detection system using Python, Flask, and OpenCV integrated with a YOLO model via Roboflow API for high-accuracy object detection.
Used frame preprocessing, confidence threshold filtering, and multi-frame validation to reduce false positives and improve detection reliability.
Implemented real-time video stream processing for CCTV/RTSP feeds and uploaded video inputs with efficient frame sampling.
Developed an alert mechanism integrating SMS API and SMTP email services to send instant notifications with detection snapshots and timestamps.
Designed and integrated a logging system using a structured database to store detection history, confidence scores, camera source, and alert records.
Created a web-based monitoring dashboard using Flask to visualize live detection statistics, alert logs, and exported detection reports.
Optimized system performance for real-time processing by controlling frame intervals, handling concurrency, and managing API request limits.