

# RAGUL M


AI | MERN DEVELOPER

✉ Ragul.mr3391@gmail.com

☎ +918438173391

in RAGUL M

GITHUB

Portfolio-website 

## SUMMARY

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Multifaceted IT student Open-minded to AI, and Web Development. Proven dedication to delivering intuitive solutions and continuously learning. Seeking opportunities to contribute to solve problems in a dynamic environment.

## EDUCATION

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### B.Tech Information Technology

Government College of technology • Coimbatore • 2026

## TECHNICAL SKILLS

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**Languages:** JavaScript, HTML/CSS, PHP, MongoDB, MySQL, Python.

**Framework:** React, Express.js, Flask, FastAPI

**Developer Tools:** Git, Docker, VS Code, Visual Studio, IntelliJ, Ollama, OS-Linux, Ubuntu

**Certification:** Building Effective Agentic Systems with Generative AI, Cybersecurity Essentials-CISCO,

## PROJECT

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### MERN-STACK - CHAT\_APP

- Built a real-time chat application supporting group messaging using Socket.io
- Implemented user authentication & authorization with JWT and bcrypt for secure login and signup.
- Enabled persistent chat history with MongoDB, ensuring messages are stored and retrievable.
- Added features like online/offline status and message timestamps. [Project link](#)

### EDUPLANNER: LLM-BASED MULTI-AGENT SYSTEM

- Developed an AI-driven lesson planning system using multi-agent LLM architecture (Evaluator, Optimizer, Analyst agents) to generate, evaluate, and refine lesson plans.
- Developed Skill-Tree-based personalization to track student competencies and dynamically adjust lesson difficulty, sequencing, and learning paths. Integrated offline LLMs through Ollama and cloud models for hybrid reasoning, improving accuracy, speed, and scalability.
- Achieved improved instructional quality, better learner engagement and cross-subject generalization, supporting scalable multi-course education. [Project link](#)

### PLANT\_ANALYSIS\_TOOL

- Built an AI-powered plant analysis tool that analyzes uploaded plant images using Google Gemini AI to identify species, assess health, and provide care recommendations.
- Implemented image upload & processing pipeline with Multer, converting images to base64 for AI model input. Designed backend APIs for image analysis (/analyze) and report. [Project link](#)
- Generated plant analysis reports with health status, and care tips, downloadable as PDF.

### PERSONAL AI WORKFLOW AUTOMATION-N8N

- Developed a personal AI assistant workflow using n8n to automate chat, email, and calendar management. Built a modular AI agent system with chat, memory, and tool integration
- Integrated Google Gemini Chat Model to process natural language queries and maintain contextual memory. Automated email workflows: fetch incoming messages, generate AI-driven replies, and send responses through Gmail. [Project link](#)

## LEADERSHIP - Placement Representative

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- Coordinated with placement cell and recruiters for smooth interview and recruitment processes.
- Supported students by sharing placement-related information, schedules, and updates.