

RAGUL M

AI | MERN DEVELOPER

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 RAGUL M

 GITHUB

Portfolio-website 

SUMMARY

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

B.Tech Information Technology

Government College of technology • Coimbatore • 2026

TECHNICAL SKILLS

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

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

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