

RAGUL M

✉ Ragul.mr3391@gmail.com | 📞 +91 84381 73391 | [LinkedIn](#) | [GitHub](#) | [Medium](#) | [Portfolio](#)

EXPERIENCE

Fantasy Solution – MERN Stack Development Internship

July 2025 – Aug 2025

- Built a real-time **MERN stack chat application** with group messaging using **Socket.io**, secure authentication with **JWT and bcrypt**, and persistent chat storage in **MongoDB**.
- Implemented online/offline user presence, message timestamps, and deployed the application on **AWS EC2 and S3**.

Detoxio.ai – Cybersecurity Internship

March 2025

- Conducted **black-box security assessment** on a live web application without credentials, performing reconnaissance, API discovery, and directory enumeration to identify exposed endpoints and application structure.
- Executed **automated and manual vulnerability testing** on web applications and APIs, analyzed functional and security issues, and documented findings with impact and remediation using tools such as **Nmap, Gobuster, Burp Suite, SQLmap, Metasploit, Nessus, and Faraday**.

PROJECTS

EduPlanner – LLM-Based Multi-Agent Learning System

[Project](#)

- Developed an **AI-driven lesson planning system** using a multi-agent LLM architecture (Evaluator, Optimizer, Analyst) to generate, evaluate, and refine learning content.
- Developed **Skill Tree-based personalization** to track student competencies and dynamically adjust lesson difficulty, sequencing and learning paths. Integrated offline LLM through **Ollama** and cloud models for improving accuracy, speed, and scalability. Tech Stack: Python, React, FastAPI, Ollama, DeepSeek API, Open-Router

Bot vs Human Tweet Classification – Transformer-Based NLP System

[Project](#)

- Built a **transformer-based NLP system** to classify social media tweets as **bot or human** using **BERT, RoBERTa, DistilBERT, and XLM-RoBERTa**.
- Fine-tuned models on TweetFake and Fox8 datasets using PyTorch on **GPU**, achieving **AUC 90** with RoBERTa and BERT-base. Performed cross-model and cross-dataset comparative analysis following research-paper standards. Tech Stack: Python, PyTorch, HuggingFace Transformers, Scikit-learn, Pandas, NumPy, Matplotlib, Seaborn, Kaggle (GPU), Google Colab

TECHNICAL SKILLS

Languages	Python, JavaScript, HTML, CSS
Frameworks	React, Node.js, Express, Flask, FastAPI
Databases	MongoDB, MySQL, Supabase
Operating Systems	Kali Linux, Ubuntu
Cloud & DevOps	AWS (EC2, S3), Netlify, Docker, Render
Tools	Git, GitHub, Postman, VS Code, n8n
AI & LLM	Ollama, Hugging Face, OpenRouter, Google Gemini API, DeepSeek API

EDUCATION

B.Tech Information Technology

May 2026

Government College of Technology, Coimbatore