

Ragulan S

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EDUCATION

Misrimal Navajee Munoth Jain Engineering College

Bachelor of Engineering | Computer Science | CGPA: 8.1/10

Chennai, India

2021 – 2025

Ananthavalli Matriculation Higher Secondary School

Higher Secondary Education | Tamilnadu State Board

Chennai, India

2019 – 2020

EXPERIENCE

Backend Developer Intern

ADRIG AI Technologies

March 2025 – April 2025

Chennai, India

- Contributed to the development of a RAG-based AI chatbot using Python, FastAPI, and ChromaDB, improving response relevance by 25% through semantic search and real-time data integration.
- Tested and integrated new API endpoints using Postman, streamlining feature deployment and reducing debugging time by 30%.
- Collaborated with the team to refine knowledge retrieval logic, improving accuracy and relevance for user queries.

Generative AI Intern

Edufic Digital

July 2024 – August 2024

Chennai, India

- Developed AI-generated content pieces using GPT-3 and other generative AI tools, automating 70% of content creation and improving accuracy by 15% through fine-tuning AI models..
- Project Involvement: Contributed to AI projects, optimizing models for real-world applications, and improving accuracy by 15% through fine-tuning and testing generative AI techniques.

PROJECTS

SMART SAGE – RAG-based AI Study Chatbot [[Github Link](#)]

Python | *FastAPI* | *ChromaDB* | *Streamlit* | *SentenceTransformers* | *Web Scraping*

Jan 2025 – Present

- Built a RAG-based AI chatbot to answer educational queries via Wikipedia, Google Search, News APIs, and document extraction, achieving 85%+ query relevance.
- Integrated ChromaDB for semantic search and MongoDB for chat history, boosting response coherence by 40%.
- Enhanced content quality through semantic filtering, topic tracking, and human-like interactions.

RENTIFY – House Rental App [[Live Link](#)] [[Github Link](#)]

MERN Stack | *React.js* | *RESTful APIs* | *Preline UI* | *MongoDB* | *Git*

Oct 2024 – Dec 2024

- Built a full-stack rental app with React.js and Tailwind CSS, featuring listings, filters, and booking UI, boosting engagement by 30%.
- Developed an admin panel for property approvals and user tracking, cutting review time by 40%.
- Used RESTful APIs to connect MongoDB for real-time property and user data handling.

TECHNICAL SKILLS

Languages: Python, JavaScript, SQL, HTML, CSS

Frameworks & Libraries: React.js, FastAPI, Bootstrap, Streamlit, React Preline UI

Tools: Git, GitHub, VS Code, Postman, Figma

Databases: MongoDB, ChromaDB

AI & Prompt Engineering: GPT-3, Generative AI tools, NLP fine-tuning

Others: Power BI, API Integration (REST APIs), Web Scraping (BeautifulSoup), Google/Wikipedia/News APIs

CERTIFICATIONS AND ACHIEVEMENTS

Hexaware Hackathon 2024: Runner-up – Awarded 25,000 for developing a Soft Skill Enhancement Web App using generative AI.

Geektrix, St. Joseph's College of Engineering: 2nd place Recognized for advanced problem-solving skills in a technical event

Certifications: DevOps (Guvi), Network Essentials (Cisco), Power BI (ICT Academy), MongoDB Node.js Developer Path (SmartBridge)