

YOGENDRA AJAY REDDY

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Education

RV College Of Engineering

B.E in Information Science and Engineering | CGPA : 9.71

Sept 2023 – Aug 2027

Bengaluru, Karnataka

Experience

Essuor

July 2025 – Sept 2025

Intern

Remote

- Developed a multi-agent AI healthcare system for patient interaction with specialized AI agents (Nurse, Doctor, Research, Reasoner).
- Implemented Neo4j knowledge graph to map disease-symptom relationships for accurate clinical reasoning and diagnosis support.
- Built RAG system combining knowledge graph queries with medical literature search for evidence-based recommendations.
- Designed agent workflow orchestration using LangChain and LangGraph with OpenAI GPT-4 and Ollama integration and compliance monitoring.

Projects

NutriLens – Nutritional Analysis Tool | React, Flask, PaddleOCR, MongoDB

[GitHub Repo](#)

- Built a full-stack web app that scans nutrition labels using OCR (PaddleOCR) and assigns personalized health ratings via a custom scoring algorithm.
- Implemented smart image preprocessing to improve OCR accuracy and extract nutritional data from packaged food labels.
- Integrated a Gemini-powered chatbot for users to ask food-related health questions, enhancing interactivity and user engagement.
- Empowered users to make informed dietary decisions by simplifying complex nutrition data into actionable insights.

Ant Colony Algorithm Visualization for Networks | React, Typescript, Flask

[GitHub Repo](#)

- Developed a simulation to visualize Computer network routing using Ant Colony Optimization (ACO) for optimal path selection.
- Analyzed traffic spread between routers and optimized network layout by suggesting ideal new router placements.
- Integrated a chatbot (Gemini API) to answer user queries about routing behavior, node performance, and ACO functioning.

Technical Skills

Languages: C, C++ , Java , Python , HTML/CSS , Javascript

Database: MongoDB , Neo4j

Machine Learning: Agentic AI , Computer Vision, RAG , Knowledge Graph

Developer Tools: VS Code , IntelliJ , Docker , Postman

Leadership & Extracurricular

RVPU Geeks 2.0

Organized and led **RVPU Geeks**, a workshop introducing 12th grade students to coding and problem-solving basics. Prepared easy to follow coding tasks and guided students through logic building and implementation.

Achievements & Coding Profiles

- Ranked **Top 10** in Codeathon DSA Contest (BMSCE) and **Top 15** in CodeQuest (RVCE) among 150+ participants.
- Secured **2nd place** in IPL Data Analysis Auction (RVCE) using Power BI for player stats and strategy.
- Solved over 300 problems on LeetCode (Max Rating: 1732) and achieved a Max Rating of 1170 on Codeforces