Rajhans

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SUMMARY

Backend and AI Developer specializing in LLM-powered apps, RAG pipelines, and server-side systems (Node.js, Python, MongoDB). Built a privacy-first local AI assistant using Phi-3 Mini, Mistral, Gemma, Ollama, ChromaDB, and STT/TTS pipelines. Skilled in prompt engineering, vector databases, multi-turn memory, and local AI inference. GATE CS 2025 & 2026 qualified.

TECHNICAL SKILLS

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

Backend: Node.js, Express.js, REST APIs, FastAPI, JWT Auth

AI / LLM: Ollama, Phi-3 Mini, Mistral, Gemma, LangChain, RAG, Prompt Engineering

Databases: MongoDB, ChromaDB (Vector DB), SQL, Mongoose

Pipelines: STT/TTS · Faster-Whisper · Piper TTS · SoundDevice

Tools: AWS (basics), Docker (basics), Git, GitHub, Linux

PROJECTS

Mentis — Local AI Assistant

Apr 2026 – Present

– Built privacy-first offline AI assistant using Phi-3 Mini, Mistral, and Gemma via Ollama with ChromaDB vector memory for context-aware multi-turn conversations.

– Engineered STT/TTS pipeline (Faster-Whisper + Piper TTS) with sub-2s voice latency; added web search and tool-use / function-calling capabilities.

– Implemented RAG pipeline over local documents via ChromaDB embeddings — zero data leaves the device.

Stack: Ollama · Phi-3 Mini · Mistral · Gemma · LangChain · ChromaDB · Faster-Whisper · Piper TTS · Python

GreenEscapes Tour App

Apr 2025 – Jun 2025

– Full-stack tour booking platform: RESTful APIs (Node.js/Express), MongoDB/Mongoose backend, JWT auth.

Stack: Node.js · Express · MongoDB · Mongoose · JWT · JavaScript

WORK EXPERIENCE

Lab Instructor — Computer Science

Present

MCE (Govt.) · India

– Mentored 60+ students in algorithms, data structures, and OOP; guided teams from ideation to working prototypes.

– Delivered hands-on instruction in C, Java, and Python covering sorting, recursion, and software design.

Backend Developer Intern

Aug 2022 – Aug 2023

CFT Labs · Jaipur, India

– Built production Node.js/Express APIs; hardened security via input validation, JWT auth middleware, and best practices.

EDUCATION

B.Tech, Computer Science & Engineering

CGPA: 8.7

Gaya College of Engineering · Aug 2019 – Aug 2023

Diploma, Computer Science & Engineering

CGPA: 8.61

Government Polytechnic, Munger · Sep 2017 – Aug 2020

CERTIFICATIONS & ACHIEVEMENTS

GATE CS 2025 & 2026 (National Eng. Entrance) · UGC NET CS 2025 · STET · PCAP · Programming Essentials in Python — Cisco