Puli Charishma Reddy

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PROFESSIONAL SUMMARY

Motivated B.Tech student with hands-on experience building AI-powered web applications using React and FastAPI. Currently deepening skills in full-stack development, AI tools like LangChain and Ollama, and practical SQL querying. Strong problem-solving ability and eagerness to learn and contribute in a fast-paced tech environment. Seeking an internship to apply my growing technical skills and gain real-world experience.

Education

Anil Neerukonda Institute of Technology and Sciences, B.Tech in Computer Science — May 2023 – May 2027

- Current Year: Third Year
- **CGPA** : 9.2

Projects

AI Code Assistant Link

- *React | FastAPI | LangChain | Ollama*
- Integrated a FastAPI backend to handle user queries, connecting with Ollama's AI models via LangChain to generate accurate and context-aware code assistance.
- Implemented real-time chat functionalities including typing indicators, smooth animations, and text-to-speech synthesis for enhanced user experience.
- Designed and optimized RESTful API endpoints to manage seamless communication between frontend and backend, ensuring efficient and reliable data exchange.

PDF Q&A Application Link

- *React | FastAPI | LangChain | FAISS Vector Search | Ollama*
- Built a web app enabling users to upload a PDF document and ask questions about its content.
- Utilized LangChain's PyPDFLoader and RecursiveCharacterTextSplitter to process and split PDF text into searchable chunks
- Created a FAISS vector store with Ollama embeddings for efficient semantic search.
- Designed a React frontend to upload PDFs, send queries, and display AI-generated answers with a professional dark-themed UI.
- Ensured CORS configuration and smooth API integration between frontend and backend.

TECHNICAL SKILLS

Languages: Python, JavaScript , HTML5, CSS3

Frontend: React, Tailwind CSS, Vite

Backend: FastAPI, REST APIs, Async Python

AI & NLP Technologies : LangChain, Ollama, FAISS vector search

Tools: Git, GitHub, npm, Postman

Other: Basic SQL queries, CORS, Document Loaders, Vector Embeddings