

Kunche Sreemukhi

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EDUCATION

- VIT Bhopal University, Madhya Pradesh
B. Tech Computer Science and Engineering (Specialization in AI & ML) | CGPA: **8.57** (May, 2026)

SKILLS

- **Programming Languages:** C++, Python, SQL
- **AI & GenAI:** RAG, LLMs, Prompt Engineering, LangChain, LlamaIndex, CrewAI, Scikit-Learn, TensorFlow
- **Libraries and Frameworks:** NumPy, Pandas, Matplotlib, Seaborn, Scikit-Learn, TensorFlow, NLP
- **Tools:** Jupyter Notebooks, Git, Google Colab, AWS
- **Core Competencies:** Data Structures & Algorithms (DSA), DBMS

PROJECTS

ConvoPro – Private GPT-Style Conversational AI System (April, 2025)

Python, Streamlit, Ollama, MongoDB, Docker, AWS EC2

- Developed a self-hosted conversational AI platform using Ollama, Docker, and Streamlit with multi-model LLM support and configurable prompts.
- Enabled **5+ LLM model switching** with custom prompt configs for adaptable workflows.
- Integrated MongoDB for persistent chat memory and deployed on AWS EC2 for secure, scalable access..

StudyPal — RAG-Powered AI Study Assistant (July, 2025)

Python, LangChain, Streamlit, Groq, ChromaDB, AWS EC2

- Developed an AI study tutor that lets students pick subjects & chapters, delivering simplified explanations and continuous Q&A with **RAG-based responses**
- Integrated **ChromaDB + LangChain** for retrieval and **Groq**-accelerated inference, achieving **~650ms** average response latency.
- Added auto YouTube learning references and deployed on **AWS EC2**, supporting **1,500+ student queries** with chapter-wise memory storage.

AstraRAG — Agentic RAG Chatbot (September 2025)

CrewAI, FastAPI, Streamlit, Groq, ChromaDB, LlamaIndex, Docker, AWS EC2

- Engineered a scalable, cloud-deployed **agentic RAG system** capable of executing multi-step real-world tasks with CrewAI + LlamaIndex.
- Achieved **~700ms** Groq-powered inference latency with FastAPI backend & Dockerized microservices on EC2.
- Added explainability UI — dropdown showing tools/agents & steps executed — boosting task transparency and user trust, supporting **2,000+ task executions**.
- Implemented modular agent tool-calling workflows (search, retrieval, reasoning) enabling flexible automated task execution.

EXTRACURRICULARS

- **Media Team Lead:** Blockchain Club – Managed event promotions and content strategy, boosting reach and managed all social media platforms to promote club events and enhance public presence and engagement.
- **Student Co-ordinator: Telugu Club** – Organized cultural events, promoting Telugu heritage and student engagement.

ADDITIONALS

- **Languages:** Fluent in English, Telugu and Hindi