Anirudh Cheruvu

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Education

University of North Carolina at Charlotte	Charlotte, North Carolina
M.S. in Computer Science GPA: 3.9/4.0	*Aug 2022 - May 2024*
Jawaharlal Nehru Technological University	Hyderabad, India
B.Tech. in Computer Science GPA: 8.27/10.0	*Aug 2018 - July 2022*

Skills

AI & Machine Learning: NLP, LLMs, RAG, GraphRAG, Huggingface Transformers, Prompt engineering, Agentic systems, Open Source, LLM fine-tuning, Vision LLMs, Multi-modal LLMs, OpenAI developer API, Gemini Live API, PyTorch, TensorFlow, Scikit-learn, LangChain, FAISS

Software Engineering & Database: Python, JavaScript, C, C++, MySQL, Pandas, MongoDB, AWS (S3, Lambda, SageMaker), Docker, Kubernetes, Git, Jira, Linux, Neo4j, Cypher, Py2neo

Web Development & APIs: HTML, CSS, JavaScript, React.js, Node.js, FastAPI, Streamlit, REST APIs, API integration, Postman, Chrome extensions

Projects

GraphifyAI - Agentic AI-Powered Data Visualization Tool Demo — GitHub
- Developed an **agentic AI system** (Python, **FastAPI**, **Gemini Live API**) for real-time data analytics & visualization, processing voice queries (speech recognition/NLP), performing autonomous database queries (**API tool-calling**), and delivering interactive visualizations with Generative AI speech/vision.
- Engineered real-time visualization of on-screen tables via a **multimodal LLM's OCR** capabilities for structured data extraction and dynamic visualization generation.
- Designed a **Streamlit web interface** with Chrome extension APIs (for audio input/screen capture) and **WebSockets** for real-time AI backend communication.

CineGraphAI: LLM-Powered GraphRAG Movie Knowledge Chatbot GitHub
- Developed an LLM-powered chatbot using interactive **Streamlit** front-end, capable of answering complex natural language queries using **GraphRAG** from a **Neo4j** graph database of IMDb movies.
- Leveraged **Google Gemini API** to interpret natural language movie queries, autonomously query the **Neo4j** Graph database using **Cypher**, understanding relationships between movie attributes to synthesize context aware responses.

LLM-powered Data-Driven Classification of Research Publications:
- Developed an LLM-powered topic classification system to classify 2,000 Arxiv computer science papers into sub-fields with **85.4%** accuracy, reasoning on unstructured text enhancing information retrieval efficiency.

Experience

Trensyc LLC	United States
AI developer	*Apr 2025 - Present*

- Currently driving POCs for innovative AI applications in generative AI, agentic systems, and advanced retrieval augmented generation (RAG), using LangChain, Huggingface Transformers and LLMs.

Radiance Technologies LLC	United States
AI developer	*Aug 2024 - Apr 2025*

- Trained on generative AI and agentic AI systems leveraging frameworks such as Huggingface transformers, LangChain, AutoGen, and LLMs; integrating with dynamic databases and custom tools for autonomous task execution.
- Developed and optimized a Retrieval-Augmented Generation **(RAG)** pipeline using **LangChain** and **Huggingface models** connected to dynamic knowledge sources, improving the factual grounding of autonomously generated responses and achieving reduction in hallucinated outputs for query-answering tasks.

Cognizant Technology Solutions	Hyderabad, India
Web Development Intern	*Feb 2022 - Jun 2022*

- Completed **400-hour** Full-Stack Web Development training (Cognizant Early Engagement), mastering the **MERN** stack through **5+** web applications and creating reusable, performant **React** UI components.