

HARIKRISHNA SAPPIDI (He/Him)

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EXPERIENCE

AI/ML ENGINEER - GEN AI

Jul 2024 – Present

MyEdMaster LLC, Leesburg, Virginia, USA

- Developing AI educational software based on a research paper, leveraging LLMs and the LangChain framework.
- Leveraged Gemini models for embedding generation, and few shot prompting to develop robust Q&A knowledge base.
- Spearheaded RAG pipeline incorporating ChromaDB for optimized vector embeddings storage and efficient metadata retrieval.
- Fine-tuned open-source models like Meta-LLaMA for domain-specific educational content, enhancing 25% accuracy in responses.

GRADUATE STUDENT RESEARCH ASSISTANT, *Learning Commons, University Libraries*

Aug 2023 – Apr 2024

Bowling Green State University, Bowling Green, OH, USA

- Streamlined resource management by strategically scheduling appointments, reducing required resources by 15%.
- Developed a scheduling algorithm that reduced staffing hours by 30%, thereby decreasing annual operational costs by \$4,200.
- Led training of newly hires and oversaw the administration of 40% of exams in the Testing Center.

GRADUATE TEACHING ASSISTANT, *Computer science Department*

Jan 2023 – Apr 2023

Bowling Green State University, Bowling Green, OH, USA

SYSTEMS ENGINEER, *BFSI Project*

Jan 2021 – Jul 2022

Tata Consultancy Services (TCS), Bengaluru, Karnataka, India

- Spearheaded major process optimization in incident management, slashing task resolution time by 80%.
- Performed detailed SQL stored procedure, schema & package analysis, and numerous data fixes in Oracle DB by updating/deleting data using PL/SQL scripts via robust change management process.
- Resolved 400+ production incidents through detailed investigation and troubleshooting, enhancing user satisfaction.
- Expertly utilized Devtools, Atlas, Visual studio, applications for analyzing and debugging application issues and providing detailed root cause analysis and fix suggestions to development teams reducing downtime.
- Coordinated BVT and UAT for 5 major new version releases ensuring seamless deployment and stakeholder satisfaction.

SKILLS

- Languages** : C, Python (Pandas, TensorFlow, PyTorch), SQL, Java, Bash, Kotlin, JavaScript
- Tools & Operating Systems** : Android Studio, Jira, MyService, Splunk, Git, Remote server, Docker, Ubuntu, Windows
- Generative AI** : RAG, Vector Database, AI Agents, LangChain, Google VertexAI, HuggingFace models, GCP

PROJECT WORK EXPERIENCE

DineSmart Chatbot (*Python, Google Vertex AI, Docker, GCP*) [[GitHub](#)]

Jul 2024 – Aug 2024

- Developed an AI-powered chatbot using Maps API and Google Vertex AI to provide real-time restaurant information. Containerized the application with Docker and deployed on Google Cloud Platform with Google Cloud Build and Google Container Registry, ensuring high availability and scalability.

ScheduleMaster (*Python, AI Agents, OpenAI, Streamlit, Chatbot, CRUD operations*) [[GitHub](#)]

Jun 2024 – Jul 2024

- ScheduleMaster is an AI-driven event scheduling assistant that integrates with Cal.com to effortlessly manage, book, and organize your meetings, ensuring seamless coordination and time management. Built using Python, OpenAI GPT, Cal.com REST API.

WebChatQA (*RAG, LangChain, Vector databases*) [[GitHub](#)]

May 2024 – Jun 2024

- Developed WebChatQA, a Streamlit-based application leveraging LangChain, HuggingFace models, and FAISS to enable efficient question answering from web content. Enhanced information retrieval capabilities using NLP and transformer models.

Data Structures and Algorithms (*Python, Visual Studio Code*) [[GitHub](#)]

[Oct 2022]

- Led a series of computational projects concentrated in sorting, dynamic programming, and Graphs designed for managing large datasets for understanding computational complexity, memory usage, and execution time.

EDUCATION

Bowling Green State University, Bowling Green, Ohio, USA

Aug 2022 – May 2024

Master of Science in Computer Science | **GPA: 4** | **Courses:** Data Structures & Algorithms, Data Science, Big Data

Jawaharlal Nehru Technological University Anantapur, Ananthapuramu, AP, INDIA

Jun 2016 – Sep 2020

Bachelor of Technology in Computer Science and Engineering | **GPA: 3.42** | **Courses:** Probability & Stats, Programming Languages

AWARDS & CERTIFICATIONS

- Machine Learning Specialization** *DeepLearning.AI and Stanford University, Coursera* [[Certification Verification Link](#)][2024]
- Awarded "Friends of the Library Graduate Student Employee of the Year" among 50+ candidates and the prestigious "Kwadwo Appenteng" honor, selected from hundreds of international students at Bowling Green State University. [2023]