

Sri Charan Thoutam

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Education

Ganapathy Engineering College

B.Tech in Computer Science and Engineering (AI & ML)

Sept 2021 - July 2024

- GPA: 7.01/10.0
- **Coursework:** Data Structures, Algorithms, Machine Learning, Deep Learning

Technologies

Languages: Python (3 years), SQL (2 years), Bash (3 years)

Technologies: AWS(EC2, ECR, S3, Lambda), LangChain, LlamaIndex, ChromaDB, RAG(Retrieval-Augmented Generation), Docker, Hugging Face, TensorFlow, PyTorch, FastAPI, Flask, Streamlit, Git

Experience

Data Science Intern

[Innomatics Research Labs](#) 

Remote

Sep 2024 – Dec 2024

- Developed and deployed machine learning models for diamond price prediction, achieving 98% accuracy.
- Implemented MLOps workflows with MLFlow and Docker for scalable model deployment.
- Led a 6-member team to develop GenAI-powered Discord bots for text and image generation.
- Authored and published two in-depth Medium articles, "Hacking the System Design" and "Evolution of Language Representation Techniques," covering advanced concepts like search engine architectures, distance metrics, language vectorization techniques, and embeddings.

Projects

Boa - A GenAI-Powered Discord Bot

[Boa-Demo](#) 

- Boa is a GenAI-powered Discord bot designed to interact with users in a friendly and intelligent manner. It uses LangChain, Google Gemini API, and ChromaDB to store and retrieve past conversations, providing contextual and thoughtful responses. The bot uses Retrieval-Augmented Generation (RAG) to generate accurate answers and stores user interactions for future reference.

Vision-AI

[GitHub](#) 

- Vision-AI is designed to assist visually impaired individuals in understanding their surroundings. It provides real-time scene analysis, obstacle detection, text-to-speech conversion, and personalized task assistance.

Chat With Multiple PDFs

[GitHub](#) 

- Built a Streamlit-based application enabling users to upload multiple PDFs and interact with their content through natural language queries, leveraging LangChain, Google Generative AI (Gemini) and FAISS (Facebook AI Similarity Search) for accurate, context-based question answering.

Publications & Achievements

Evolution of Language Representation Techniques

A Journey from BoW to GPT

[Read Article](#) 

Nov 5, 2024

Hacking the System Design

How Search Engines Understand and Deliver Results

[Read Article](#) 

Oct 28, 2024

Earned 5 stars in both Python and SQL on HackerRank

[HackerRank Profile](#) 

Solved 90+ problems on LeetCode

[LeetCode Profile](#) 