# Sri Charan Thoutam

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in linkedin.com/in/CodeWithCharan 

♂ codewithcharan.github.io/My-Portfolio

#### Education

#### Ganapathy Engineering College

Sept 2021 - July 2024

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

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

## Skills

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**

Remote

Innomatics Research Labs

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**

# Awesome LLM Apps (Open-Source Contribution) - GitHub 🗹

Jan 2025 - Jan 2025

 Contributed to a collection of awesome LLM apps with AI Agents and RAG using OpenAI, Anthropic, Gemini and opensource models.

## Pharmaceutical Insight Retrieval System (Personal Project) - GitHub 🗹

Jan 2025 - Jan 2025

Developed an advanced Retrieval-Augmented Generation (RAG) pipeline with similarity search for precise
query responses. It is designed to help users gain meaningful insights from research papers and documents
in the pharmaceutical domain. It uses LangChain, Google Gemini, ChromaDB and Streamlit.

# Boa-AI (Team Project) - Boa-Demo 🗹

Nov 2024 - Dec 2024

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.

#### Publications & Achievements

### **Evolution of Language Representation Techniques**

Read Article Z Nov 5, 2024

A Journey from BoW to GPT

Read Article 🗹

Hacking the System Design

Oct 28, 2024

How Search Engines Understand and Deliver Results

Earned 5 stars in both Python and SQL on HackerRank

HackerRank Profile 🗹

Solved 120+ problems on LeetCode

LeetCode Profile