Srikar Veluvali

Hyderabad, Telangana, India

🜙 +91 6281397352 💌 srikarv100@gmail.com 📠 LinkedIn 🗘 GitHub ﴿/> LeetCode 🏔 Portfolio

EDUCATION

Keshav Memorial Institute of Technology

Bachelor of Technology in Information Technology

CGPA: 9.78

Nov. 2022 - May 2026

Sri Chaitanya Apr. 2020 - Jul 2022 Class 11 & 12

Percentage: 98.4%

EXPERIENCE

Defence Research Development Laboratory - DRDO HPC Software Engineering Intern

Jun 2024 - Oct 2024

Hyderabad, Telangana

- Optimized CUDA programs for Computational Fluid Dynamics simulations, reducing GPU processing time by 25.93%, cutting missile flow simulations from 30 days to 22 days.
- Led high-performance computing solutions, accelerating data processing and improving Reynold's Equations simulation accuracy.
- Worked with engineers to optimize parallel computing algorithms, significantly boosting execution efficiency.

TECHNICAL SKILLS

Programming Languages: C/C++, Python, Java, JavaScript, Go (Golang)

Web Development: HTML, CSS, Node.js, React.js, Express.js, Flask, Next.js, Bootstrap, Tailwind

Databases & Data Management: MySOL, MongoDB, Chroma

Tools & Platforms: Git, GitHub, Docker, Postman, Tableau, Unix/Linux, Google Colab, StarUML

Relevant Coursework: Software Engineering, Computer Networks, Operating Systems, Parallel Programming, Database

Management Systems

PROJECTS

Astor AI: A Chatbot for Medical Queries | *LLMs*, *Generative AI*, *React.js*, *Flask*, *Fine-tuning*

GitHub — Demo Video

- Developed a medical chatbot using the Llama 3 model, fine-tuned for medical data, and implemented Retrieval Augmented Generation (RAG) methods, improving response accuracy by 30%, reducing average query response time by 25%, and making it scalable on local computers and achieving minimal latency.
- This model has also achieved 400+ downloads on Huggingface.

Heart Health Web Application | MERN, Machine Learning, Data Science, Flask

GitHub — Demo Video

- · Developed an innovative MERN stack web application with Machine Learning for heart disease prediction and personalized diet/exercise plans and integrated with Google's Gemini AI for diet suggestions and a map-based system to locate nearby cardiologists.
- Nominated for People's Choice Award among 15,000 projects in the Google Gemini API Developer Competition.

Named Entity Recognition with OCR & BERT | Machine Learning, Data Science, Fine-tuning, LLMs

GitHub

- Developed an Optical Character Recognition (OCR) system combined with a fine-tuned BERT model for entity extraction. The objective is to extract text from images and classify entities within that text, allowing for efficient data extraction from visual sources.
- The project leverages OCR for text extraction from images and uses BERT for classifying the extracted text into predefined entities. This two-step process enables high accuracy (42%) and efficiency in recognizing and categorizing information.

AWARDS AND CERTIFICATES

- Solved over 630 problems on Leetcode and hold a 2-star rating on Codechef for competitive programming.
- Consistently achieved the highest academic standing as the Branch Topper across all the semesters.
- Awarded for Prompt design and developing generative AI apps by Google in May 2024.
- Awarded Silver Medal (Top 5%) in Python for Data Science from IIT Madras, scoring 84%
- Achieved Silver Medal (Top 5%) in Programming in Java from IIT Kharagpur, scoring 78%
- Completed a Deep Learning using Python course at IIT Hyderabad in February 2023.