KOUSHIK REDDY KADARI

Hyderabad, Telangana, India

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Education

Keshav Memorial Institute of Technology, Hyderabad **2022 - Present**
B.Tech in Information Technology *9.58 CGPA*

Sri Chaitanya Junior College, Hyderabad **2020 - 2022**
Maths Physics Chemistry (MPC) *98.4 %*

Technical Skills

Languages: C, C++, Python, Java, Javascript
Frontend: React.js, Tailwind, Bootstrap, HTML, CSS
Backend: Node.js, Express.js, Flask
Databases: MySQL, MongoDB
Tools and Platforms: Git, GitHub, Unix/Linux, Postman, Google Colab, VS Code, Windows

Experience

Defence Research & Development Laboratory (DRDL) **June 2024 – Present**
HPC Software Engineering Intern *Hyderabad, Telangana*
- Optimized sequential code to parallel code using CUDA, achieving a **25% speedup in performance** and efficiency.
- Implemented and tested CUDA kernels, **achieving significant speedup** in computational tasks.
- Conducted performance analysis and debugging of CUDA applications to ensure optimal functionality.

Projects

Registration Info LLM ⭘ | *React.js, Express.js, MonogoDB, Gen AI, LLM, Flask, Python* **March 2024**
- Developed a **customized LLM component** for the Registration Department's service platform, serving as the first point of contact for citizens.
- Utilized **Retrieval-Augmented Generation (RAG)** to enhance the accuracy and relevance of responses, improving **response quality by 18%**.
- Developed dynamic pages using React to enhance user interaction and responsiveness, implemented authentication using **JWT** and **SMTP**.

AI/ML powered chatbot for Namami Gange project ⭘ | *Javascript, MongoDB, Python, Flask* **October 2023**
- Created an AI, MLPowered Chatbot , **interactive mascot (Chacha Chaudhary)** and digital avatar to raise awareness and disseminate information about the Namami Gange Programme to school children.
- Conducted user testing and **feedback sessions** to iteratively improve chatbot functionality and user experience.
- Designed an **engaging user interface** that appeals to children and encourages interaction with the chatbot.

Bankist Services ⭘ | *Javascript, Express.js, MongoDB, HTML, CSS* **March 2023**
- Developed a web application to provide basic bank services for users. Designed and implemented user-friendly interfaces for account management, transactions, and other banking functionalities.
- Ensured responsive design and **Integrated security features** to safeguard user data and transactions.
- Improved transaction processing **speed by 15%** and user satisfaction by providing a seamless experience for **banking functionalities**.

Achievements and Certificates

- Secured **2nd place in Code Sangram**, showcasing problem-solving and programming skills as a first-year student.
- Achieved **3rd place** among 500+ teams in **IIT Jammu's Hack-o-Calypse 24**.
- Solved **over 730 problems on Leetcode** and hold a 2-star rating on Codechef for competitive programming.
- Consistently achieved the highest academic standing as the **College Topper in first semester.**
- Problem Solving Through Programming In C - NPTEL
- Data Science using Python A-Z™ : for ML - Udemy
- AI For India 2.0 - GUVI, IITM Research Park
- Gemini API by Google - Udacity
- Python Expert Level - GUVI, IITM Research Park