







# KADARI Koushik Reddy

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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 %*

**Lotus High School, Jadcherla**

**2019 - 2020**

*Secondary School Certificate (SSC)*

*10 GPA*

## 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, VS Code, Windows

**Coursework:** Full Stack Development, Data structures and Algorithms, Object Oriented Design, Problem solving, Database Management Systems

## Experience

**Defence Research & Development Laboratory (DRDL)**


**June 2024 – Present**

*CUDA Programming Intern*

*Hyderabad, Telangana*

- Optimized sequential code to parallel code using CUDA, enhancing 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 dynamic pages using React to enhance user interaction and responsiveness.
- Implemented authentication using JWT and SMTP to secure user access and manage communications.
- 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.

**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.
- Integrated the chatbot with multiple communication platforms including social media, web portals, and mobile applications.
- 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.
- Developed a comprehensive banking application with features including account management, transaction processing, and loan management.

## Certifications and Courses

- 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