

Sai Chaithrik Dangeti

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EDUCATION

Master of Science in Computer science, The University of Texas, Dallas, TX

Aug 2023 - May 2025

Pursuing coursework: Data Structures and Algorithms, Big Data Management & Analytics, DBMS

Vellore Institute of Technology (VIT University), Vellore, India

Jun 2019 - May 2023

Bachelor of Technology in Electronics and Communication Engineering

GPA: 3.95/4

TECHNICAL SKILLS

Programming Languages – Java, Python, JavaScript, C++, C

Frameworks and tools – Scrapy, Scikit Learn, NLTK, Node.js, Spring Boot, Angular, Flask, Spring Boot

Database Management- MySQL, MongoDB, SQL, NoSQL

Libraries and Other skills- Git, REST API, Linux, UNIX, Azure, DevOps, AWS, Microservices, Docker, Testing

Experience

Software Development Intern - Indian Railways (*React.js, GIT, Node.js, Express.js, MongoDB*) *Feb 2022 - Apr 2022*

- Spearheaded the development of a cutting-edge, end-to-end food delivery platform leveraging the **MERN** stack
- Engineered an intuitive and dynamic user interface enabling seamless browsing of restaurants, menu exploration, efficient cart management, and streamlined order placement.
- Architected a **RESTful API** infrastructure to handle sophisticated CRUD operations for restaurants, dishes, and orders with robust data validation and error handling mechanisms.
- Crafted responsive and visually captivating UI components utilizing React Context API, React Router, **Axios**, and custom **CSS** for a flawless cross-device experience.

Data science intern-Corizo (*Python, Flask, NLTK*)

Jan 2023 - Mar 2023

- Engineered a highly accurate heart disease prediction model with a 94% accuracy rate, integrating Logistic Regression, **KNN**, and Random Forest algorithms.
- Designed and implemented an intuitive graphical user interface (GUI) using **Django** and HTML templates, enabling users to access informative disease severity visualizations effortlessly.
- Leveraged multiple Machine Learning techniques to significantly enhance predictive accuracy and provide actionable insights for heart-related conditions.

PROJECTS

Real Time Chat Application (*JavaScript, React.js, MongoDB, RESTful API, Socket.IO*)

- Developed a real-time chat application using React, Node.js, Socket.IO, MongoDB, and Express, ensuring efficient communication and data management.
- Implemented **Socket.IO** for bidirectional communication between clients and the server, enabling instant messaging and reducing latency by approximately 70%.
- Utilized **MongoDB** and **Express** for backend data storage and API development, creating a scalable and responsive chat application.

Chatbot using NLP (*Python, NLTK, Scikit, Keras*)

- Developed a customer support chatbot using Python, machine learning, and natural language processing techniques, enhancing user engagement and efficiency in query resolution.
- Implemented data-driven solutions using **scikit-learn** and Keras, contributing to improved decision-making processes and predictive analytics capabilities.
- Improved the chatbot's response generation module, leading to a 30% reduction in response time and increased user satisfaction.

Simple Unix shell (*C, Unix, shell scripting*)

- Designed and implemented a highly efficient command line interpreter (CLI) in **C**, with an average response time of under 0.1 seconds.
- Improved the batch mode, resulting in a 40% reduction in execution time for commands using output redirection.

LEADERSHIP AND ACCOLADES

- Achieved the prestigious "Pratibha Award" from the Chief Minister of Andhra Pradesh, India, in recognition of attaining the highest 1 percentile ranking in the SSC Board exams.
- Published research paper titled "Angina Pectoris Predicting System using Embedded Systems and Big Data" in the **International Research Journal of Engineering and Technology (IRJET 2023)**.
- Recipient of the Java Excellence Certification from Coding Ninjas.