

HARSHA VARDHAN REDDY GUTHI

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EDUCATION

Indian Institute of Technology, Hyderabad

B.Tech, Computer Science and Engineering

November 2021 - Present

CGPA: 8.91/10

Sri Chaitanya Junior College, Vijayawada

Intermediate Education, MPC

April 2019 - August 2021

Percentage: 98.1

TECHNICAL STRENGTHS

Programming Languages

C/C++, Python, RISC-V Assembly, p4(basics)

Frontend

React, TailwindCSS, HTML, CSS

Backend

Node.js

Database

PostgreSQL, MySQL, MongoDB

Web Technologies

Kubernetes, Minikube, istio (basics)

Operating systems

Windows, linux

Other tools and technologies

Git/GitHub, LaTeX, SolidEdge

RELEVANT COURSES

- **Computer Science:** Data Structures and Algorithms, Operating Systems, Data Base Management System, Computer Architecture, Software Development Fundamentals, Software Engineering, Compilers, Theory of Computation, Introduction to Programming.
- **AI:** Introduction to AI, Foundations of Machine Learning, Deep Learning.
- **Mathematics:** Discrete Maths, Introduction to Probability, Calculus, Linear Algebra, Tensors.

PROJECTS

Community Q&A Website

February 2023

- Developed a primitive Q&A website for accessing information, solving problems, and exchanging ideas.
- Implemented features like creating, editing and deleting questions, answers, upvotes, downvotes, user authentication, paging, user search, multi-tag search, filters.

eDHCP

November 2023

- It is an extension to DHCP which ensures security for both server and client enabling simultaneous authentication. The security is established via certificates facilitated by asymmetric key-based authentication. Used mininet environment for implementation.

Kaggle Project

November 2023

- Conducted preprocessing on the input data like feature selection using heatmaps and predicting missing values through k-NN prediction and imputation.
- Trained various ensemble models such as Random Forests, Adaboost, and Gradient Boosting, to analyze the dataset and make predictions.

Resource Sharing and Synchronization

February 2022

- Implemented TAS, CAS, and Bounded CAS mutual exclusive algorithms for the synchronization of various threads that share a common lock.
- I developed a multithreading program to synchronize interactions between an Ice Cream Vendor and Families for selling and refilling ice creams using C++ threads, semaphores, and mutex locks.