

A GUHAN

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EDUCATION

Chennai Institute of Technology

Bachelor of Technology Artificial intelligence and Data science CGPA 8.89/10

2021-2025

Chennai, TamilNadu

- **Relevant Coursework:** Data Structures and Algorithms (C++) | Prob & Stat in CS (Python) | Computer Networks | Operating Systems | Deep Learning | Database and design | Object Oriented Programming.

SKILLS AND INTEREST

C++ | Javascript | Python | React.js | Express.js | Node.js | MySQL | Amazon Web services(AWS) | system design | software engineering practices | Kubernetes | Docker | PyTorch | Linux | Version control with Git | Networking | Competitive programming | Deep Learning.

TECHNICAL PROJECTS

Navi-Go | *Large Language Model* | *Reactjs* | *nodejs* | *Google cloud* | *python* | [Link](#)

Jan 2024

- Created an inclusive app for transportation information in 5 regional languages and accessibility for people with disabilities.
- Integrated **Google Maps API, Gemini, and model pipeline** to enhance the application's robustness.
- Implemented **Microservice architecture** to efficiently manage multiple APIs and enhance application functionalities.
- Optimized personal notifications in the application using **FastAPI serialization and asyncio**.
- Developed **progressive web application(PWA)** for accessibility across diverse end-user devices.
- Collaborated with 3 team members to scale and deploy the Application for end-users.

Pilote | *React Native* | *MySQL* | *Docker* | *Node js* | [Link](#)

Aug 2023

- Developed a **React Native** application to facilitate medicine transportation in remote areas.
- Integrated **Google Maps API and directions** to track incoming medicine shipments.
- Collaborated with a 10-member drone hardware team to integrate additional features into the application.
- Optimized the application with **bundle optimization and caching** for seamless performance in low-internet areas.

EXPERIENCE

Airosspace R&D Pvt Ltd

Sep 2022 – Oct 2023

Software Engineer

Chennai, TamilNadu

- Developed a client-side application in React Native to facilitate communication between individuals in need of medicine in remote hill areas and drone operators.
- Experimented with parallel and distributed computing using **MPI (Message Passing Interface)** to establish machine learning training systems.
- Led a team of **5 software developers** in designing machine learning models and implementing edge-optimized solutions for drones.
- Developed API endpoints to inference machine learning models with **93% accuracy**.
- Received recognition from the Indian Air Force for an innovative solution among **200** participants.

ACHIEVEMENTS

Winner of Smart India Hackathon 2023 | Software Edition

- As a team, we developed software for the Government of India to categorize news as negative, positive, or neutral, identifying related government departments for prompt decision-making.
- Our scalable solution, using AWS endpoints and a database, efficiently processes news from various sources, ensuring effectiveness in aggregating and classifying information across government facilities.

Finalist of Meharbaba Airforce competition | Autonomous System Development

- From 250 nationwide teams, our team attained the finals for creating an intelligent system to detect anomalies on Indian Air Force runways using drones. Our key contributions involve API endpoint development, optimizing model inference in the autonomous system, and crafting a robust dataset, all proficiently executed in Python and C++.

Codeforces-highest rating of 1135 as newbie | [Profile](#)

Leetcode -highest rating of 1452 | [Profile](#)

CERTIFICATIONS

IBM Introduction to Docker,Kubernetes [Certificate](#)

Python for Machine Learning & Data Science Masterclass [Certificate](#)