

# A GUHAN

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## SUMMARY

Motivated and aspiring software engineer with a foundation in computer science and a passion for innovative problem-solving, seeking opportunities to contribute to a team and solve real-world problems.

## EDUCATION

### Chennai Institute of Technology

2021-2025

Bachelor of Technology Artificial intelligence and Data science(CGPA: 8.9/ 10)

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

**Technical:** C++,Javascript,Python,React.js,React Native,Express.js,Node.js,MySql,Amazon Web,system design,software engineering practices,Services(AWS),Kubernetes,Docker,PyTorch,Linux,Version control with Git,Networking,Competitive programming,Deep Learning.

## TECHNICAL PROJECTS

### Pilote | React Native,MySql,Docker,Node js | [Link](#)

Aug 2023

- Client-side solution adapted for remote scenarios, catering to essential needs like medicine and food, with a focus on effective operation in low-internet areas to address connectivity challenges common in remote locations.
- Technical highlights include the use of MySQL for robust data reliability and integrity, ensuring functionality in scenarios with limited internet access, and the implementation of Dockerization for scalability and portability, facilitating easy deployment in diverse settings.

### Greta | Large Language Model,Reactjs,nodejs,Aws | [Link](#)

Dec 2023

- Empowers users to make eco-friendly decisions and opt for sustainable products, with the goal of reducing carbon footprints by providing guidance on environmentally conscious choices and promoting eco-friendly purchases.
- Utilizes a large language model for natural language comprehension, web automation, and integration with diverse APIs. This comprehensive approach extends to planning day-to-day activities, showcasing the versatility of the system in seamlessly integrating various technologies for an enhanced user experience.

## 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. The application is Engineered to allow users to easily convey their medication requirements. Additionally, I emphasized optimizing the application to function seamlessly even in areas with low-level internet connectivity.
- Developed an API endpoint for inferring machine learning models within autonomous systems. I optimized low-level frameworks to enable faster and more accurate inference of the developed neural networks, reducing the latency of the inference process from minutes to seconds.
- Developed,Trained Neural networks based on YOLO for computer vision tasks in autonomous system.

## 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 | Maximum Rating 1000 [Profile](#)

Leetcode | Ranked as top 40% in the world [Profile](#)

## CERTIFICATIONS

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

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