

## EDUCATION

- **Indian Institute of Information Technology Sri City** Chittoor, India  
*Bachelor of Technology in Computer Science and Engineering* 2020 - 2024

## SKILLS

- **Programming Languages:** C, C++, Python, Java, Javascript, Matlab
- **Frameworks & Libraries:** NodeJS, ExpressJS, ReactJS, Django-Rest-Framework,pandas,Deeplearning, Machine Learning, TensorFlow
- **Tools & Databases:** MongoDB, MySQL, PostgreSQL, Git/Github, Docker, Amazon Web Services

## PROJECTS

- **Indian Railway Smart Yard - Gov. Of India** Live 🔗  
*Protocol Development - Python, Django, LoRa, IR*
  - Designed a protocol simulation system that demonstrates how a train engine detects and tracks all attached wagons in sequence using short- and long-range communication with live visualization.
- **Discord Bot** Live 🔗  
*Bot Automation - Node.js, Discord.js, JavaScript*
  - A smart Discord bot that helps individuals and groups make decisions by analyzing user input, perform option elimination and random selection, designed for real-world public server use.
- **Secure Drive** Live 🔗  
*Full Stack - React.js, Node.js, Express.js, MongoDB, Cloudinary*
  - Developed secure file storage like Google Drive with expiring links and no duplicates, using cloud storage for easy scaling.
- **Dr-Helpy** Live 🔗  
*Full Stack - React.js, MongoDB, Express.js, Docker*
  - Dr-Helpy is a MERN-based medical store web app for buying medicines online with basic consultation and secure payments..

## APIs AND EXTENSIONS

- **Spam Detector API:** Live 🔗  
A secure Django REST API with JWT authentication for reporting spam numbers and identifying callers with privacy protection.
- **Catalog Search API:** private 🔗  
An AI-driven image similarity search API using CNN feature embeddings and FAISS for fast, accurate visual product retrieval.
- **CookieLens Extension:** Edge 🔗  
A privacy-first browser extension that analyzes website cookies and consent behavior locally without collecting user data.
- **VidGrab Extension:** Edge 🔗  
A browser extension that detects downloadable videos and HLS/M3U8 streams locally without collecting user data.

## EXPERIENCE

- **Shoptainment** Jan 2025 - August 2025  
*Software Development Engineer* remote
  - Developed a Django-based product search API leveraging deep learning models to support catalog and global search across multiple e-commerce platforms, enhancing product discovery and shopping convenience.
  - Designed the interface for a Shoppable Video Platform with interactive product tagging to seamlessly connect entertainment with e-commerce.
- **Jivass Technologies** July 2024 - November 2024  
*Software Engineer* Chennai
  - Implemented protocol for tracking wagons(leveraging LoRa, RF, and IR) inside and outside the yard, increasing communication efficiency and reducing delays by 20%.
  - Automated image analysis for industrial inspection using deep learning, reducing inspection preparation time by 30%.
- **All India Marketing Hr Solutions** June 2023 - August 2023  
*Fullstack Developer Intern* remote
  - Created user-friendly web apps using React, Dart, Firebase teamed up to build full solutions and make them faster and better.

## RESEARCH WORK

- **Comparative Analysis and Implementation of Cybersecurity Algorithms :**
- Conducted a comparative analysis of advanced cybersecurity algorithms—including RSA, AES, and ECC—to evaluate their efficiency, encryption strength, and suitability for real-time drone communication systems.

## RESPONSIBILITIES

- **IOTA** 2023 - 2024
  - Core Member
  - Engaged as a core member within the IOTA Club, actively participating in fundamental organizational activities and initiatives.
  - Mentored new members by providing technical guidance and organized technical events to foster a collaborative learning environment.