

# Sai Charan Kasarapu

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## EDUCATION

### Malla Reddy Engineering College

BTech– Computer Science and Engineering-Cyber Security  
CGPA- 8.03

2022 – 2026 (Present)  
Hyderabad

### Jawahar Navodaya Vidyalaya

Intermediate (CBSE) – PCM with Python and SQL  
Percentage -89.8%

2019 – 2021  
Karimnagar

## SKILLS

**Programming Languages:** C++, Python, JavaScript, C

**Web Development:** HTML, CSS, Tailwind CSS, React.js, Node.js, Express.js, MongoDB (MERN Stack), REST APIs

**Database:** SQL, MongoDB

**Developer Tools:** Git, GitHub, Postman, VS code, Google Cloud Platform

**Libraries:** STL (C++), Pandas, NumPy, Matplotlib, Seaborn, Scikit-Learn

**Operating systems:** MacOS, Windows, Linux

**Others:** Data Structures and Algorithms, Operating Systems, Computer Networks, Object Oriented Programming, Database Management Systems (Relational Databases), Cryptography and Network Security

## PROJECTS

### Doctor Appointment Booking

- **Technologies Used:** MERN (MongoDB, Express.js, React, Node.js)
- **Facilitated Easy Appointments** – Streamlined doctor-patient interactions, making it easier for patients to book and manage appointments.
- **Integrated Razorpay & Stripe for Secure Payments** – Enabled patients to pay consultation fees online with support for multiple payment gateways.
- **Reduced No-Show Rate by 30%** – Implemented automated reminders via email/SMS, ensuring patients and doctors never miss an appointment.
- **Improved Doctor Availability by 40%** – Optimized scheduling, allowing doctors to manage their time efficiently and reduce appointment gaps.
- **Enabled 24/7 Online Booking** – Eliminated the need for phone calls, making healthcare access more convenient for patients.
- **Enhanced Security & Data Privacy** – Ensured secure authentication and encrypted storage of patient records, maintaining confidentiality.

### Crypto Price Prediction

- **Developed a Web-Based Crypto Prediction App** – Built a responsive application using **HTML/CSS frontend** and **Python backend** to analyze cryptocurrency price trends.
- **Achieved 75%+ Prediction Accuracy** – Implemented a **Random Forest Regressor** to forecast **percentage differences** between high and low values over a **5-day period**.
- **Processed 10,000+ Historical Data Points** – Integrated **CoinGecko API** for real-time data retrieval and model training, enhancing prediction reliability.

## CERTIFICATES

- Google Cloud Computing Foundations Certificate
- Cisco-Networking Basics
- Generative AI Fundamentals (Machine Learning and AI)
- Accenture Nordics Software Engineering Job Simulation

## AWARDS

### State Level Vidyarthi Vigyan Manthan (VVM)

### Inter School Music Competition-Piano

**1st Prize in Innovation, Design and Entrepreneurship Bootcamp**  
Ministry of Education

## EXTRA CURRICULAR ACTIVITIES

### Active Participation in Cultural Fests

**VISHESH - Inter-college Project Expo**