

Nihal Kata

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Portfolio

Summary

Motivated and tech-curious B.Tech CSD student currently in 2nd year at CMR College. Interested in web development, AI tools, and side projects. Passionate about building real time practical tech solutions and learning by doing. Strong academic background and self-motivated learner.

Education

CMR College of Engineering & Technology, Hyderabad B.Tech in Computer Science and Engineering

- **CGPA: 9.02** (3 semesters) **2024-2028**

Narayana Junior College Intermediate (MPC)

- **Percentage: 98 %** **2020-2022**

Ravindra Bharathi School (SSC)

- **Percentage: 90 %** **2020**

Technical Skills

- **Programming:** C, SQL, Python, and Java
- **Web Technologies:** HTML, CSS, Node js and React js
- **IoT & Embedded Systems:** ESP32, Arduino
- **Databases:** MySQL, MongoDB
- **Tools & Platforms:** GitHub, VS Code, Arduino IDE, Tableau, AutoCAD (Basic), & Anaconda
- **CS Fundamentals:** Operating Systems, DBMS, Object-Oriented Programming
- **Learning Areas:** DSA, Machine Learning, and Exploring new Technologies.

Projects

Homomorphic Encryption Based Video Copy Detection in Multi View Videos Stored in Cloud

- Developed a cloud-based, privacy-preserving video copy detection framework using Homomorphic Encryption.
- -Engineered a Python pipeline for zero-knowledge similarity matching directly on encrypted video features.

Rakshatra - Smart Travel Safety Companion

- Designed an intelligent travel platform to help users navigate unfamiliar cities safely using multi-modal route planning and transparent fare estimates.
- Integrated a one-tap SOS emergency alert connected to a nearby volunteer safety network for rapid assistance. Visit prototype: [Live here](#).

SPark - Smart Car Parking

- A smart automated system which detects the empty slots at real-time
- Making Parking easier by using IOT by adding features.
- Visit prototype: [Live here](#)

Scan Spectrum

- Build a automated system which convert 2d models to 3d models.
- Visit prototype: [Live here](#)

QR Code API Microservice

- Designed and deployed a full-stack microservice for dynamic QR code generation.
 - Implemented asynchronous client-server communication.
 - Visit prototype: [Live here](#)
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Achievements

- **3rd Place** at Cybage Techfest 2026, Hyderabad
 - Showcased diverse technical projects at more than 5 hackathons.
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Extra-Curricular Activities

- Participating in college coding events, Hackathons and tech quizzes.
 - Working on freelance ideas ,automation projects and practicing coding platforms regularly.
 - **Interests:** Enthusiastic about skating, swimming, and playing competitive cricket and shuttlecock.
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Certifications

- TATA GenAI Powered Data Analytics- **2026**
 - Deloitte Data Analytics Virtual Job Simulations - **2026**
 - IBM Certification in SQL and Relational Databases - **2026**
 - Infosys introduction to business analytics - **2026**
 - Cisco Introduction to Data Science, Python essentials and Networking Basics - **2026**
 - HackerRank Verified Skill Certifications in Advanced SQL and Java (Basic) - **2025**
 - Python for Data Science certification via Reliance Foundation Skilling Academy - **2025**
 - Participated in the Google Gemini Academy Workshop in collaboration with STTAR - **2025**
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Declaration

I hereby declare that all the information provided above is true and correct to the best of my knowledge and belief. No material fact has been concealed, and I take full responsibility for the accuracy of the details provided herein. In the event that any of the information is found to be false or misleading, I understand that I shall be liable for the consequences thereof.

Date: April 24, 2026

Place: Hyderabad, India

(Nihal Kata)