

Yash Khare

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Technical Skills

- **Programming Languages:** Python, C++, Java, C.
- **Frameworks, Libraries, and Tools:** Metasploit, OpenCV, Pandas, Keras, Scikit-learn, Jupyter Notebook, Git
- **Problem-Solving Expertise:** Solved **125+ algorithmic challenges on LeetCode**; skilled in algorithms, data structures, dynamic programming, and problem-solving techniques.
- **Machine Learning & AI:** Proficient in classification, regression, clustering, and computer vision.
- **Relevant Courses:** Algorithms, Data Structures, Data Analysis, Data Science

Projects

Meditech – Smart Hospital Management System

June 2024 – Oct 2024

Group Project

- Designed queuing algorithms to reduce patient wait times and improve workflow.
- Developed a web-based interface for healthcare providers, optimizing operational processes.
- Integrated inventory and billing systems.
- Ranked **Top 9** in SIH internal hackathon 2024 for healthcare solutions.

Malware Detection in Android Applications

Dec 2024 – Present

Group Project

- **Developing an Android malware detection system using static analysis** (permissions, API calls) and dynamic analysis (runtime behavior, network activity).
- Utilizing tools like **Androguard**, and **Wireshark** to extract features from APK files and identify suspicious patterns.
- Designing an **AI based security reporting** system to classify threats and **generate detailed malware analysis reports**.

Gesture Controlled Car using IoT

Jan 2025 – Present

Group Project

- Designed and developing a hand gesture-controlled car using **nRF24L01** wireless communication and **Arduino**
- **Accelerometer-based** gesture recognition to control vehicle movement remotely.
- Using **C++ (Arduino IDE)** to process hand gestures and transmit.
- **Tools/Tech Used:** C++, Arduino.

Sudoku Solver

Jan 2023 – Apr 2023

Individual Project

- Designed a **Backtracking**-based algorithm to solve Sudoku puzzles efficiently.
- Built a Python GUI for user-friendly input, validation, and solution visualization.
- Enhanced my **Problem solving skills** and **deep constrain based problems**.

Education

Charotar University of Science and Technology

Aug 2023 – Present

B.Tech in AI and Machine Learning

Changa, Gujarat

- Current CGPA: **9.06**

Edunova, Maninagar

Jun 2022 – May 2023

High School (State Board)

Ahmedabad, Gujarat

- **12th Board Result:** 88.84%

Achievements

- **Academic Excellence:** Achieved **2nd** rank in Semester 3 (SGPA: 9.26/10); awarded the **MYSY Government Scholarship**.
- **Certifications:** Earned 4 certificates on HackerRank, including **Problem Solving (Intermediate)**; completed the **Google CyberSecurity Certificate** and **Data Structures and Algorithms with Java (NPTEL, IIT Kharagpur)**.
- **Competitions:** Ranked in the **Top 10%** in the CodeKaze DSA Hackathon and participated in the Dose DSA Hackathon.
- **Cybersecurity:** Hands-on experience with cybersecurity tools such as **Hydra** and **John** for **password cracking using brute force**, as well as **Burp Suite** for **penetration testing of web applications** and **Metasploit framework for exploitation**. Participated in **TryHackMe's Advent of Cyber**, gaining practical experience in **ethical hacking** and **vulnerability assessment**.
- **Soft Skills:** Strong **team collaboration**, **adaptability**, and **effective communication** demonstrated through group projects and hackathons.