



# Daksh Ranka

 <https://github.com/Dakshranka>

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My Portfolio: <https://daksh-portfolio-theta.vercel.app/>

## EDUCATION

### Vellore Institute of Technology (Chennai, India)

2022 - 2026

*B.Tech Computer Science with AI and Robotics*

*Current GPA: 9.35/10.0*

### St. Anthony's Sr. Sec. School, Udaipur (Rajasthan, India)

2020 - 2022

*XII Percentage: 93.00*

### St. Anthony's Sr. Sec. School, Udaipur (Rajasthan, India)

2019 - 2020

*X Percentage: 88.00*

## COURSEWORK

**Courses:** Object-Oriented Programming, Data Structures & Algorithms, Linear Algebra, Probability & Statistics, Operating Systems, Computer Networks, Database Management, Software engineering

## SKILLS

**Languages:** C/C++, Python, Java, JavaScript, SQL

**Techs:** HTML, CSS, Tailwind CSS, MySQL, ReactJS, Express.js, MongoDB, Node.js, Machine Learning, Neural Networks

## PROJECTS

### File Sorter System Using Python

([https://github.com/Dakshranka/python\\_project-file-sorter-.git](https://github.com/Dakshranka/python_project-file-sorter-.git))

- Developed an Automated File Sorting System: Created a Python script to automatically organize and manage files in directories based on file types, improving efficiency, and reducing manual effort.
- Implemented Recursive Directory Traversal: Utilized recursive algorithms to traverse directories and subdirectories, ensuring comprehensive file sorting and organization.
- Customized Sorting Logic: Designed the sorter to categorize files into user-defined folders (e.g., images, documents, videos) based on file extensions, enhancing customization and adaptability to different user needs.
- Enhanced File Management with Error Handling: Integrated robust error handling mechanisms to manage file access permissions, non-existent directories, and other potential issues, ensuring reliable and uninterrupted operation of the sorter.

### Face Recognition Attendance System:

- Developed an automated attendance system using face recognition technology. Technologies Used: Python, OpenCV, d lib, Flask, MySQL.
- Face Detection and Recognition: Implemented using OpenCV and dlib to accurately detect and recognize faces in real-time.
- Database Integration: Stored attendance data in a Firebase Real time database for easy retrieval and management.
- Web Interface: Created a user-friendly web interface using Flask for managing attendance records and viewing reports.
- Automation: Automated the attendance marking process to reduce manual effort and eliminate errors.
- Achievements: Successfully tested with a high accuracy rate and implemented in a controlled environment for a pilot run.

### Hand Gestured Controlled Car using Arduino, Open CV

(<https://drive.google.com/file/d/1G3B5v1R7-LXc6YoMsXmpinE4LUcsv6Yu/view?usp=sharing>)

- Developed a Hand Gesture Controlled Car: Designed and implemented a robotic car controlled by hand gestures using Arduino and OpenCV, demonstrating expertise in robotics and computer vision technologies.
- Integrated OpenCV for Gesture Recognition: Utilized OpenCV to process real-time video input and recognize hand gestures, converting them into commands for the Arduino to control the car's movements.
- Programmed Arduino for Motor Control: Wrote and optimized Arduino code to interpret gesture commands and control the car's motors, enabling precise and responsive movement based on user input.
- Enhanced User Interaction with Real-Time Feedback: Implemented a system to provide immediate feedback on recognized gestures and corresponding car actions, improving the user experience and interaction with the robotic car.

## Experience

**Chakralaya Analytics pvt. Ltd.** | IT Intern

July 2024 – Present

- HTML, CSS, JavaScript, and modern frameworks to enhance user experience and functionality.
- Successfully integrated various third-party APIs into web applications, enabling seamless data exchange and enhancing application features through external services.
- Worked closely with a team of developers and designers, contributing to the design, coding, testing, and debugging of web applications, ensuring high-quality and robust solutions.

## ACHIEVEMENTS

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- Microsoft Certified in Azure AI fundamentals
- Web Development Udemy Certification
- Ranked 9th in academics in my branch, awarded a certificate for outstanding academic performance.
- Achieved 100% marks in NPTEL course and ranked in the top 1%.