Ankit Prajapati

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# Work experience

## Indore Institute of Science and Technology, Indore Madhya Pradesh

### Core Member - Robotics Club

10/2024 – present

* Designed autonomous robots integrating OpenCV and image processing for navigation tasks.
* Conducted workshops on ROS and computer vision, training over 30 students.

## Indore Institute of Science and Technology, Indore Madhya Pradesh

### Core Member - AI Club

10/2024 – present

* Organized collaborative projects focusing on ML and Deep Learning.

## Indore Institute of Science and Technology, Indore Madhya Pradesh

**Conference Coordinator**

08/2024 – present

* Organized a research conference for the first time at college.
* Presented a research paper and engaged a panel of experts.

# Education

### Indian Institute of Technology, Madras

### Data Science

05/2023 – present

## Indore Institute of Science and Technology, Indore Madhya Pradesh

### B. Tech Computer Science Engineering

09/2023 – present

## Delhi Public School, Sagar Madhya Pradesh

### PCM + Informatics Practices

03/2021 – 03/2022

## Delhi Public School, Sagar Madhya Pradesh

### Higher Education

03/2019 – 03/2020

# Technical Skills

## Programming Languages:

Python, C/C++, Java, JavaScript, React, Arduino Programming, TypeScript fundamentals

## Frameworks & Libraries:

OpenCV, ROS, PyTorch, NumPy, Pandas, Matplotlib, Next.js, Tailwind, Firebase, Supabase, REST APIs, API, TensorFlow

## Specialized Skills:

Image Processing, OCR, Computer Vision, analytical, Problem-Solving

## Tools & Technologies:

UI/UX, PyTesseract, Hugging Face, Streamlit, Flutter, Flutter Flow, App Development, Web development, Git/GitHub, Raspberry Pi, Microcontrollers, ESP32, IOT, Figma, Canva,

# Projects

**Saathi: Medicinal Aid for Elderly Safety and Health Monitoring**

*IISF 2024 S&T Hackathon Project*

* Developed an advanced medicine dispenser tool for elder care, combining health monitoring, safety features, and caretaker connectivity.
* Built a web and mobile app for seamless connectivity With Medical Dispenser using Flutter.

**Security System for Institute**

*Watch Tower Hackathon, IIT Roorkee (2024)*

* Build a web application using React.js and Next.js, leveraging Modern JavaScript and TypeScript for real-time license plate recognition with a Python-based OCR system.
* Implemented image segmentation and preprocessing techniques, achieving 95% accuracy.

**Text Extract: OCR Web Application**

*Independent Project (2024)*

* Developed a web app using PyTesseract and Streamlit for extracting text from images.
* Optimized the interface for batch processing with real-time feedback.

**Viyomi – Robot**

IIST Robotics Club (2024)

* Designed and programmed a Raspberry Pi-powered robot.
* Featuring voice modulation and speech recognition capabilities.

**Tower of Hanoi Game**

*Independent Project (2024)*

* Built an interactive Tower of Hanoi game using React.js and Node.js.
* Focused on efficient algorithms and an engaging UI design.

**Desktop Assistant (Voice-Controlled AI Program):**

*Independent Project (2024)*

* Created a Python-powered desktop assistant capable of performing tasks via voice commands.
* Integrated features like app launching, Wikipedia search, and multimedia playback.

# Certifications & Achievements

* **Recognized for Innovation:** Participated in the IISF 2024 S&T Hackathon at IIT Guwahati, earning recognition for developing innovative solutions to real-world challenges.
* Participated in the Internal Round of SIH 2024.
* Hackathon Achievement: Presented the OCR project in the "Watch Tower Hackathon" at IIT Roorkee (2024).
* Guinness World Record Contributor: Took part in the record for the most users in an online AI lesson within 24 hours (2020).
* Ai For Youth 2020 Winner, Workshop conducted by Intel and CBSE
* Win 2 Gold Medal in Martial Arts (kudo): Sambhag-level champion in under 16 and under 19 categories.