Ankit Prajapati

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Summary

I am aspiring to be a computer science professional with firsthand experience in robotics, and Web & App development. I am seeking an internship opportunity to apply my ability in programming, computer vision, and IoT to innovative projects.

Work experience

Core Member - Robotics Club

Indore Institute of Science and Technology, Indore Madhya Pradesh

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.

Core Member - AI Club

Indore Institute of Science and Technology, Indore Madhya Pradesh

10/2024 – present

- Organized collaborative projects focusing on ML and Deep Learning.

Conference Coordinator

Indore Institute of Science and Technology, Indore Madhya Pradesh

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 Thinking, Problem-Solving, Analytical Skill.

Tools & Technologies:
UI/UX, PyTesseract, Hugging Face, Streamlit, Flutter, Flutter Flow, App Development, Web development, Git/GitHub, Raspberry Pi, Microcontrollers, ESP32, IOT, Figma, Canva, Firebase, Supabase

Technical 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, using 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.
- Improved 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 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:** Took part in the IISF 2024 S&T Hackathon at IIT Guwahati, earning recognition for developing innovative solutions to real-world challenges.

- **SIH 2024:** Qualified for the Internal Round of the Smart India Hackathon.

- **Hackathon Achievement**: Presented the OCR project in the "Watch Tower Hackathon" at IIT Roorkee (2024).

- **Guinness World Record** Contributor: Took part in the largest online AI lesson (2020).

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- **Ai For Youth 2020 Winner**: 3 Days Workshop conducted by Intel and CBSE.

- **Martial Arts Champion**: Gold Medal in Kudo (under-16 and under-19 categories).