

Yash Pratap Singh

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in YashPratap

Career Objective

Aspiring software developer and B.Tech Computer Science student at VIT Bhopal with a strong foundation in C++, Java, Python, and Object-Oriented Programming. Experienced in building real-world projects involving IoT and computer vision. Quick learner with a passion for problem-solving and eager to apply programming knowledge in a practical, team-oriented environment. Actively seeking internship opportunities to gain industry experience and contribute to impactful technology solutions.

Skills

- Languages: C++, Python, Java, Object-Oriented Programming (OOPs)
- Tools: Microsoft Office Suite, VS Code
- Soft skills: Adaptability, Problem solving skills, Team coordination

Education

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|---|----------------------------|
| Vellore Institute of Technology, Bhopal <i>B.Tech in Computer Science and Engineering</i> | <i>Sept 2023 – Present</i> |
| Metropolitan School. Gorakhpur <i>XII (ISC)</i> | <i>2021</i> |
| Metropolitan School. Gorakhpur <i>X (ISCE)</i> | <i>2019</i> |

Projects

AgriBot – Smart Agriculture Robot (IoT-based)

- Built with Arduino and environmental sensors (soil moisture, temperature, humidity).
- Automated irrigation based on real-time data to optimize water use and improve crop yield.
- Supported wireless remote monitoring for sustainable farming.

Shastra Eye – AI-Powered Surveillance System

- Implemented YOLOv8 for object detection and MediaPipe for hand tracking.
- Detected suspicious hand movements and unauthorized access in real-time.
- Designed to automate alerts and reduce manual monitoring in public areas.

Skills

- Introduction to Machine Learning – Microsoft
- Fundamentals of Computer Vision – Microsoft
- Cloud Computing – NPTEL
- AI and ML – Vityarthi Learning Destination
- Python Essentials – Vityarthi Learning Destination