

# Yash Bharat Bhaskar

Robotics Engineer / Computer Vision Engineer

Artificial Intelligence Enthusiast

Bachelor of Engineering in Robotics and Automation

Zeal College of Engineering and Research, Pune

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GitHub Profile

LinkedIn Profile

Portfolio Website

## EXPERIENCE

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### Robotics and AIML Intern | [Link](#)

8 January 24

*Automate Engineering*

- Led the development of a robotics project integrating ESP hardware with IoT cloud connectivity, implementing embedded C programming for efficient communication and control between hardware and cloud systems.
- Trained a computer vision model for object detection, specifically YOLOv8, enhancing real-time recognition capabilities for AI applications, and contributed to optimizing the ML model, to improve accuracy and performance.
- Collaborated in troubleshooting, debugging, and innovating solutions across both hardware and software components, strengthening teamwork, and improving problem-solving and communication skills.

## TECHNICAL SKILLS AND INTERESTS

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**Languages :** C++, Python, HTML, CSS

**Skills :** IOT, Computer Aided Design, Computer Vision (Open-Cv, YOLO, OCR), ROS2

**Framework :** Robotic Operating System (ROS)

**Tools :** VS Code, Git, Github

**Operating System :** Windows, Ubuntu Linux, Raspbian Linux

**Areas of Interest :** Robotics, Computer Vision, Artificial Intelligence

**Soft Skills :** Problem Solving, Self-learning, Quick Adaptability

## PROJECTS

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### Design and Development of Autonomous Mobile Robot with a Camouflage for Surveillance using YOLO v8 and ROS2 for Navigation | [Link](#)

*An AI-Vision autonomous mobile robot for intruder detection and surveillance*

- Autonomous navigation and real-time surveillance using ROS2 and YOLO, integrating object detection and face recognition.
- Equipped with a night vision IR camera and camouflage-like structure for stealth, with notification alerts sent through messaging for immediate situational awareness for military application
- **Technology Used:** Python, C++, Raspberry Pi, ROS2, Google Cloud, YOLO, Open-Cv.

### Sparkle: Your Voice-Powered AI Laptop Assistant for Effortless Control and Productivity | [Link](#)

*An Voice assistance for seamless control, secure access and enhanced productivity*

- Features facial recognition for secure access and gesture volume control for enhanced usability.
- Empowers users with voice-controlled tasks such as web searches, messaging, and social media management. Implements system commands like window management, shutdown, and sleep mode activation.
- **Technology Used:** Python, Open-Cv, Twilio API, Speech Recognition.

## EDUCATION

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### Bachelor of Engineering in Robotics and Automation

*Zeal College of Engineering and Research Narhe, Pune*

2022-25

CGPA: 8.81

### Class 12th HSC

*Modern College of Arts, Science and Commerce Shivajinagar, Pune*

2019-21

Percentage: 83.50

## CERTIFICATIONS

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• ROS2 Humble Mentorship Program Rigbetel Labs Pvt. Ltd. | [Link](#)

• CAD Modelling using Solidworks Infinite Graphix Technologies Pvt. Ltd. | [Link](#)

• ROBO AI: An Industrial Training Program on Robotics and Artificial Intelligence and its Simulation. | [Link](#)

• Training and Workshop on Python Django Framework and Web Designing in Elite Softwares Pvt. Ltd. Pune. | [Link](#)

• IOT, Embedded System Design, Embedded C Programming and PCB Designing in Pantech Solutions Pvt. Ltd. | [Link](#)

• MATLAB Onramp and Simulink Onramp. | [Link](#)

## ACHIEVEMENTS

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• Received Letters of Recommendation from Myequation Tech Analogy Pvt. Ltd. for the ROBOAI Workshop and from Automate Engineering for outstanding performance in internship.

• Participated in IIT Bombay's E-Yantra Competition in 2022, 2023, and 2024, successfully completing several tasks.

• Actively preparing for the JLPT N4 Japanese language proficiency exam.