VAIBHAV SATPUTE

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SUMMARY

A Robotics and Automation Engineering who is strongly motivated and enjoys constructing effective real-world solutions. Knowledge and experience with Python programming, deep learning, computer vision and 3D modeling along with working with ROS2 for robotic middleware. Skillful at designing robots, setting up simulation tests, designing perception routines and putting advanced control algorithms into practice.

SKILLS

- Computer Vision
- Deep learning
- Python
- MySQL
- ROS2
- HTML5
- Power BI
- Adaptability
- Time Management
- Autodesk Maya
- Autodesk Fusion360
- Autodesk AutoCAD
- Unity
- Unreal Engine

EDUCATION

Bachelor of Technology in Robotics and Automation **Sep 2021 - Jun 2025**

Symbiosis Institute of Technology, Pune

- GPA: 8.4
- Honor in Aerial Robotics and Drone Technology

12th CBSE **Mar 2020 - May 2021**

Vidya Bhumi Public School, Chhindwara

- Percentage: 92.8%
- Physics, Chemistry, and Mathematics

WORK EXPERIENCE

Computer Vision and AIML Intern, Invictus Solution **Jan 2025 - June 2025**

- Developed an OCR system for the part number extraction from the ring and pinion gears.
- Developed a simple Poke-Yoke system for interlocking the glueing machine based on the colour detection.
- Developed CAD models and animations to show the integration of our system with their existing system.

Computer Vision | Deep Learning | CAD design | PLC communication

PROJECTS

Staircase Climbing Robot **Jul 2024 - Oct 2024**

- Developed a stair-climbing robot that can navigate stairs using adaptive control and wheel based mechanism. Designed in such a compact way that the robot can completely stand on the one stair. This design enhances stability and accessibility, making it suitable for search and rescue, delivery, and assistance tasks.
- Designed the robot and developed the structure.

CAD design | Hardware assembly | Documentation

Smart Interactive Robot **Jan 2024 - Apr 2024**

- Developed a voice-controlled interactive humanoid robot system, which can perform predefined gaits (upper body movements) and solve the queries asked by the user.
- In charge of defining the motion of the gaits, build the robot structure.

CAD design | Hardware assembly | Kinematics & Dynamics

Smart Attendance System **Jul 2023 - Oct 2023**

- Design and develop secure and realtime facial recognition based attendance system.
- Lead the project, developed the facial recognition system and used it to mark attendance in the csv based on the time and the lecture

Computer Vision | Machine Learning | Documentation

Pneumatic Sorting System **Jan 2023 - Apr 2023**

- Develop a pneumatic sorting system which can detect and sort the products based on their colour.
- Co-lead the hardware and electronic team to manufacture the conveyor and sorting system.

Design | Hardware Assembly

Digital Journal **Jan 2023 - Apr 2023**

- Develop a front end website for the digital laboratory journal for the some of my courses, it shows the ideal journal and the procedure for the experminet or work to be performed.

ReactJS | HTML5

ADDITIONAL INFORMATION

- **Languages:** English, Hindi, Marathi
- **Certificates:**
  - Modern Computer Vision™ PyTorch, Tensorflow2 Keras & OpenCV4
  - Introduction to Web Development with HTML5, CSS3, and JavaScript
  - Deep Learning A-Z™ 2023: Neural Networks, AI
  - Robotics & Mechatronics 3: Digital Twin Machines | Unity
- **Co-curricular Activities:** Created educational podcast for UNNAT Bharat.