VAIBHAV SATPUTE

B. TECH. ROBOTICS & AUTOMATION

CONTACT

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EDUCATION

2021 - 2025
SYMBIOSIS INSTITUTE OF TECHNOLOGY, PUNE

- B. Tech in Robotics & Automation
- Specialization in Aerial Robotics and Drones
- GPA: 8.38 / 10.0

Vidya Bhumi Public School, Chhindwara (CBSE) 12th
Year 2021 Percentage: 92.8%

SKILLS

- Deep Learning
- Computer Vision
- 3D Modelling
- MySQL
- Sensor Perception
- Motion Planning
- ROS2
- HTML
- Data Analysis
- Power BI
- Time Management
- Adaptability

LANGUAGES

- English (Fluent)
- Hindi (Fluent)
- Marathi (Basics)

ABOUT ME

A Highly motivated Robotics and Automation Engineering student with proficiency in python, deep learning, computer vision, 3D modeling, and ROS2. Skilled in database management, with strong analytical and research abilities. Known for exceptional time management and a detail-oriented approach.

CERTIFICATIONS

- Modern Computer Vision™ PyTorch, Tensorflow2 Keras & OpenCV4
- Introduction to Web Development with HTML5, CSS3, and JavaScript
- Deep Learning A-Z™ 2023: Neural Networks, AI

PROJECTS

Smart Interactive Robot

- 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.

Staircase Climbing Robot

- 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.

Battery life prediction model

- Design a deep learning model to predict battery health, to optimize the performance.
- Co-lead the project, was in charge of data analysis and improving model performance.

Pneumatic Sorting System

- 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.

Smart Attendance System

- 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