TANUJA ADHAV

CONTACT

91+ 7843029144

adhavtanuja.1928@gmail.com

Shani-Shignapur ,Post-Sonai, Taluka-Newasa, Dist-Ahilyanagar

www.linkedin.com/in/tanuja-adhav-633774372

EDUCATION

2022 - 2023

SAVITRIBAI PHULE PUNE UNIVERSITY

- Completed SSC with 91.60% in Dr.Babasaheb Ambedkar Mahavidyalay,Sonai,Tal - Newasa,Dist-Ahilyanagar

2024 - 2025

MSBTE

- Completed second year Diploma in Information Technology with 94.17% in Amrutvahini Polytechnic, Sangamner,Dist-Ahilyanagar

- Currently pursuing further education

SKILLS

- Teamwork
- Time Management
- Leadership
- Effective Communication
- Critical Thinking

LANGUAGES

- English
- Hindi
- Marathi

PROFILE

I am Diploma IT student at Amrutvahini Polytechnic Sangamner, currently in 2nd year. Passionate about coding, software development, and building innovative tech solutions. Skilled in Python, C programming, C++,JAVA, Arduino-based hardware simulation, and UI design. Looking to contribute technical knowledge and creativity to a dynamic organization based on my skills.

WORK EXPERIENCE

AI, Machine Learning andRobotics

- Developed a real-time 3D object detection system using OpenCV and Python, integrated with PyQt5 for GUI.
- Calculated object area in square centimeters (cm^2) using segmentation techniques.
- Used machine learning (e.g., basic image classification or object tracking algorithms) for detection and labeling.
- Simulated hardware logic using Arduino and Tinkercad, integrating sensors for robotics control.
- Built a multi-screen UI with Start, Capture, Stop, and View functionality.
- Achieved consistent detection accuracy and designed an interactive user experience.
- Trained Data of csv. file using Machine Learning.

Mechanics and Embedded Systems

- Designed and implemented a mechanical system integrated with microcontrollers (Arduino UNO) for automated control.
- Used ultrasonic and IR sensors for real-time obstacle detection and distance measurement.

2024 - 2025

- Programmed the system using C/C++ and Arduino IDE, achieving accurate motor control and sensor feedback.
- Developed a simulation in Tinkercad to test sensor responses and mechanical movement.
- Applied mechanical design principles (gear systems, torque balance) to ensure stability and efficiency.

PROGRAMMING LANGUAGES

- **C Programming Language**
- **C++**
- **Java**
- **Python**
- **HTML**