Pruthviraj Banne

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SUMMARY

Motivated Robotics Engineering student passionate about designing, building, and automating robotics systems. Skilled in coding and creating innovative solutions, with a strong work ethic and dedication to advancing automation technologies. Driven by a deep interest in bringing robotics to life through design, engineering, and coding expertise.

PROJECTS

1. Third Eye
Utilized computer vision, image processing, CNN, and machine learning to develop a smart stick designed to assist visually impaired individuals.

2. Automated Waste Management System
Developed a smart dustbin using IoT and radio signals, capable of transmitting data and integrating with a dashboard for real-time garbage collection management.

3. Armory monitoring system
Developed mechanism that send the armory and currect location using Lora-wan technology to control room

OTHER PROJECTS - Smart Security Camera, EasyML, Smart Security bot

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PROFESSIONAL EXPERIENCE

Xperate (Trainee software developer)   **Feb 2024 - Aug 2024**

Worked as a trainee software developer for 6 months on a client project, where I contributed to both problem-solving and the development process. Demonstrated strong analytical skills, focusing on delivering effective solutions, and collaborated with the team to meet client requirements and project deadlines, while gaining a deeper understanding of software development practices.

TECHNICAL SKILLS

- **Machine Learning, CNN, and Image Processing**
- **Programming Languages**: C, C++, Java, Python
- **Web Development**: Flask, jQuery, Bootstrap
- **ROS2 (Humble) and Gazebo**
- **3D Designing**: Fusion 360
- **PCB Designing**: EasyEDA
- **Expertise in Microcontrollers and Sensors**, with experience in 15-20 projects

EDUCATION

M.Tech in Automation and Robotics (Aug 24 - present)

Defence Institute of Advance Technology Pune.

B. Tech in Computer Science and Engineering (Artificial Intelligence) (2020-2024)

DKTE's Textile and Engineering Institute, Ichalkaranji. CGPA 9.19

EXTRACURRICULAR ACTIVITIES AND ACHIEVEMENTS

- **Secured 3rd place** in the e-Yantra Robotics Competition 2023, competing among over 373 teams nationally.
- **GATE Qualified**: CS 2023, CS & DA 2024, ranking in the top 4067 nationally.
- **Awarded Utility Patent** for the "Third Eye" project in 2024, enhancing visually impaired people life.
- **Secured Design Patent** for a Weed Removal Machine in 2023, enhancing agricultural productivity by 80% and reducing labor costs by 60%.
- **Obtained Copyright** for the Smart Security Camera project, enhancing security through Machine and Deep Learning.
- **President** of AISA (Artificial Intelligence Student Association 2022-23).
- **Participated** in Flipkart Grid 6.0 competition 2024, solving AS/RS system.
- **Participated** in the Robotics competition at Techfest, IIT Bombay 2024 solving path planning problem.