

Prajwal Kamble

Driven to build intelligent machines that solve real-world problems

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PROJECTS / EXPERIENCE

AI-Powered Autonomous Drone Response for Urban Safety

Drone Dashboard UI integrating MAVSDK, PX4, YOLOv8, and ROSBridge;
Pune urban grid simulation, Leaflet.js map, geofence logic, theme switcher,
canvas-based Gazebo simulation tab.

Fully SIMulated Environment Platform

Vibration Buds (Assistive Wearable Prototype)

Conceptualized a wearable device that converts audio signals into
Morse-code vibrations.

Designed for assistive communication and sensory feedback applications.

MESHWAVE (Lora Mesh Networking protocol)

LoRa Mesh Networking Protocol Full C++ AODV routing protocol, RF
simulator, WebSocket dashboard, debugged mutex deadlock via deferred
SendQueue pattern.

6-DOF Robotic Arm Project

Developed control logic for precise joint movement and positioning.

Explored robot kinematics concepts for multi-axis robotic manipulation

EDUCATION

MIT ADT College , Loni Kalobhor , Pune — Degree

Sept 2025 - 2029

Btech Computer Science

Dhole Patill Jr. College , Kharadi , Pune — 11th-12th

MONTH 2022 - MONTH 2024

PCM

AIR FORCE SCHOOL 9BRD Chandan nagar , Pune — 1st-10th

MONTH 2011 - MONTH 2022

SOCIALS  

SKILLS

PCB Design

Circuit Design

ROS

Gazebo Simulations

Electronics & Embedded
System

PL : C , C++ , Python ,
Micropython

Server & Development
Environment Setup .

Basic CAD design

Basic N8N Automation

Video Editing

CURRENTLY LEARNING

SLAM

Camera Calibration

MATLAB Simulink

LANGUAGES

English , Hindi , Marathi
Sanskrit

EXPERIENCE

Technical Member - Volta MIT
ADT

Technical Member - Vidyut
Veda MIT ADT

Smart India Hackathon
Collaborated on IoT
monitoring systems for
national-
scale agricultural and
renewable energy challenges

