

# Janmesh Raut

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## EDUCATION

### SDSM, Palghar— 12th

JUL 2020 - FEB 2022

Grade: 76.50%

### MIT-ADT University, Pune— IT

2nd year

Grade: CGPA-9.1 (upto Sem 3)

## PROJECTS

### MegaWiFi Based Wildlife monitoring Using Esp-32

Sep2023-Dec 2023

MegWiFi-based Wildlife Monitoring uses the ESP-32 CAM microcontroller to capture real-time images and videos of wildlife in remote habitats. Its compact, low-power design and custom MegWiFi network allow researchers to observe animals without disturbance, aiding in conservation and ecological studies. This cost-effective solution demonstrates how IoT technology can enhance wildlife protection.

### Healthcare App for Post Teenage Pregnancy

Dec 2023-March 2024

Misguided Beginning: Dark Side of Teenage Pregnancy" explores the harsh realities faced by young parents as they navigate the challenges of unplanned pregnancies. Fueled by a lack of comprehensive sex education, these teenagers find themselves thrust into adulthood, grappling with emotional, financial, and societal burdens. The documentary sheds light on the physical and psychological toll of early parenthood, emphasizing the urgent need for support, understanding, and resources to break the cycle of misguided beginnings

## SKILLS

- Ardiuno interfacing
- Adobe Photoshop
- C,C++
- Figma
- Front end Developer
- Machine Learning

## LANGUAGES

Marathi,Hindi,English

## **Fabric Fault Detection System Using AI and Machine Learning**

**Dec 2024 – Present**

The Fabric Fault Detection System leverages AI-based models, particularly YOLO, to identify and classify defects in textile fabrics such as holes, broken picks, and thick wefts. Using high-resolution cameras and real-time processing, the system captures fabric images and analyzes them for anomalies with high accuracy. Integrated with a user-friendly web interface, the system allows for easy image upload and defect visualization. This smart quality control tool enhances manufacturing efficiency, reduces waste, and ensures consistent fabric quality through the power of machine learning.