

# OM DOIPHODE

☎+(91)-8169440841 ◇ Mumbai, India

✉Gmail ◇ inLinkedIn ◇ ○Github

## EDUCATION

**Veermata Jijabai Technological Institute, CGPA - 9.4** ↗

Dec 2021 - May 2025

Second Year Bachelor of Technology in Computer Engineering

## COMPETITIONS

**E-Yantra Robotics Competition by IIT Bombay- Swatchhta Bot** ↗

Oct 2022 - March 2023

FPGA, Verilog HDL, Parallel Processing, Wireless Communication, Path Planning Algorithm

*Mumbai, India*

- Developed a Bot for deployment on an arena which is an abstraction of a Smart city, the bot had a functionality of **Line Following** and **Path Planning**.
- This **FPGA** based robot was able to traverse the arena, sense the environment and collect and dispose of the waste. It employs **UART** protocol-based wireless communication mechanisms.

## PROJECTS

**Image Pipeline** ↗

Aug 2022 - Sept 2022

C++, Python, Computer Vision

*Mumbai, India*

- Took **RAW image** from sensor and converted it to **meaningful image**. Several algorithms like **Debayering**, **Black Level correction**, **Auto-white balance**, **Gamma correction** were first implemented to construct a meaningful image.
- Implemented additional algorithms on the constructed image to post-process it like **Sobel edge detection**, **Morphological operations**, **masking**.

**VJTI Centenary Hackathon Winners- Hostel Management Portal** ↗

Jan 2022

React, NodeJS, Express, Mongo, Machine Learning

*Mumbai, India*

- Built a web app for **Automated room allocation** for students to avoid time-consuming process and also implemented **attendance system**, **complaint redressal system**, **merit list** for allocation.
- Designed backend in **Express** for document verification of students.

**Wellness Here** ↗

Oct 2022 - Jan 2022

React, NodeJS, Express, Mongo, Machine Learning

*Mumbai, India*

- Built a web app to help people keep a track of their health and suggest nearby gyms and hospitals.
- Implemented **Logistic Regression** to predict the likelihood of heart diseases in the next 10 years. Precautions which needs to be taken were also suggested.

## SKILLS

Languages	C/C++, Python, Verilog HDL, JavaScript, HTML/CSS
Frameworks	Flask, React, Express, NodeJS, PyTorch, TensorFlow
Libraries	Numpy, OpenCV, Pandas, Matplotlib
Technologies	Git/GitHub, PyCharm, VS Code, IntelliJ

## EXTRA-CURRICULAR ACTIVITIES

**Society of Robotics and Automation, VJTI** ↗

Feb 2022 - Present

Core Member

*Mumbai, India*

- Attended workshops on **Image Processing**, **3 DOF Robotic Arm**, **Self-balancing Robot**.
- Conducted **offline workshop** for 200+ students