Vaibhav Raheja

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# Education

## Mukesh Patel School of Technology Management and Engineering, Mumbai, India

Graduated with a Bachelor of Technology in Computer Engineering. (CGPA: 3.63/4)

## Relevant Courses:

## Mukesh Patel School of Technology Management and Engineering, Mumbai, India

Diploma in Computer Engineering

Expected: May - 2023

Expected: May - 2023

# Professional Experience

## AIIMS (All India Institute of Medical Sciences) Hospital, New Delhi, India

*Research Intern*

Undertook a research project to implement Robotic Intubation using a Robotic Arm and develop Control Systems using ROS and python for the Robot.

Funded by the ICMR (Indian Council of Medical Research).

## Granuler: CIO Consulting, Mumbai, India

*Intern*

Project CRM (Customer Relation Management Implementation) Implemented a CRM system for Granuler CIO Consulting.

Gathered requirements from the client and finalized them on HubSpot CRM. Implemented them and trained the client on the same.

Project RPA (Robotic Process Automation) Using UiPath to automate the CEOs workflow

## Intelligence Node, Mumbai, India

*QA Intern*

learned the basics of web applications, understood beta testing, and implemented tests on multiple web applications.

Feb **2021 – Feb 2023**

**January 2020 – May 2020**

Jul 2018

# Academic Projects

## Chronic Disease Detection System using Machine Learning

B. Tech Final Year Project

Developed an expert system used to detect/predict various chronic diseases by collecting various health details of a patient using Machine Learning models to provide a helping hand to doctors. With an accuracy of over 90%

Implemented for:

COVID-19

Pneumonia Heart Disease

Chronic Kidney Disease Diabetes

## Home Automation

Developed a complete system to control most electronics from a mobile phone or using voice commands on google assistant.

Achieved this using ESP-8266 microcontroller; includes electronics such as: Lights

Fan

Air conditioner

RGB-controlled lights.

## Soft Robotics Hand

Developed a Soft Robotics Hand controlled by stepper motors that will be able to grab almost any object

Reads the hand's position using OpenCV and replicates it onto the robotic hand.

The future scope of this is to assist doctors in holding specific tools during surgery.

## Vector Launcher

Technology: Android Studio (Java)

Made an Android Phone Home Screen Launcher with different customizations

2021 – 2022

2020

2022

2019 – 2020

## PDF Expert

Technology: Android Studio (Java)

Converts pictures or books to pdf and can convert image to text and get a pdf by selecting the area with the finger.

## Snake Game

Technology: C++

Worked on a solo project to make a Snake Game using GUI.

2020

2018

# Publications

## Multi-Disease Prediction System using Machine Learning

IEEE International Conference on Futuristic Technologies (INCOFT)

2022

# Technical Skills

Python Arduino

Machine Learning

C++

MS Office

ROS

Fusion 360

# Extra Curricular Activities

## Intelligent Ground Vehicle Competition, Detroit, MI, USA

Vice-Captain

Achieved 3rd place at an annual international competition hosted at Oakland University, Michigan, in which multidisciplinary teams competed to create an autonomous vehicle according to a set of rules in order to compete. Developed a fully functioning autonomous vehicle with object detection, path planning, and traversal.

## Rotaract Club of Bombay Airport, Mumbai, India

Board of Directors of Club Service

Initiated all Club Service activities, supervised and coordinated the work of the committees appointed for particular aspects of Club Service and ensured the smooth and effective running of the club, and created a climate and culture that made our club inviting, appealing, and interesting.

## e-Yantra Robotics Competition (eYRC), Mumbai, India

Participated in a competition conducted by IIT Bombay. Tasked to make a drone for the delivery of parcels.

## Lane Detection using Hough Transform and Histogram

Wrote an article to explain lane detection using computer vision using the Hough Transform. This article has approximately 400 reads.

## Rotaract Club of Bombay Airport, Mumbai, India

Member

## The Editorial Project by MPSTME, Mumbai, India

Head of Logistics

Organized a concert by The Local Train at JRM Grounds

## Python Programming Workshop ʻPyLearnʼ

## Roller Hockey, Mumbai, India

Team Captain

Achieved 3rd place in a National Level Roller Hockey Tournament in Haryana.

2020 – 2022

2020 – 2021

R

2020 – 2021

2020

2019 – 2020

2019 – 2020

2019

2012 – 2013