BALBIR SINGH

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EDUCATION

Jaipur Engineering College and Research Centre, Jaipur
B.Tech in Mechanical Engineering   **Nov 2020**
KVS, Beawar, Rajasthan | Higher Secondary (PCM)   **May 2015**

SKILLS

C/C++, Python, Machine Learning, HTML, CSS, Git, Github, Data Structures, Django

PROJECT

1.MASK DETECTION   **Aug 2020**

Build a Face Mask Detection System that can detect a person in real-time if he/she is wearing a mask or not using a webcam with quite good accuracy. Created a learning model using **Python**, **OpenCV** and **Keras** with **Tensorflow** as a backend for building the **Deep Learning Convolution Neural Network model**. Training the model is the first part of this project and testing using webcam is the second part.

2.HAND GESTURE RECOGNITION   **Aug 2020**

Project is about recognising the number of fingers showing in front of live feed camera.Using **Hand Haar CascadeXML** which is used to identify Palm. The user is showing a gesture in a live webcam and gets the output in real time.

3. MOTION DETECTOR   **June 2020**

created a program to detect motion in front of the camera. The objective of this program is to detect the motion happening in front of the camera by using **computer vision(OpenCv)** and plotting the graph of starting time and ending time with the help of an In-built **Python** library called **Matplotlib.**

AWARDS AND ACKNOWLEDGEMENTS

▪ Gold level(**5-Star**) in **Problem Solving** section on **HackerRank.**(**PYTHON**)(hackerrank.com/singh321balveer)
▪ Gold level(**5-Star**) in **Python** section on **HackerRank.**(hackerrank.com/singh321balveer)
▪**4-Star** rating on **CodeChef.**(codechef.com/users/balbir_08)
▪ Secured **452**[th] place out of **20,000+** contestants participated in October Challenge 2020 Division 2 (codechef.com/rankings/OCT20B?order=asc&page=23&sortBy=rank)
▪ Secured **30**[th] place out of **14,000+** contestants participated in November Challenge 2020 Division 2 (codechef.com/rankings/OCT20B?order=asc&page=23&sortBy=rank)
▪ Secured **142**[th] place out of **22,000+** contestants participated in December Challenge 2020 Division 2

EXPERIENCE

SHREE CEMENT LTD | Beawar   **May 2019 – July 2019**
Mechanical Engineer Intern (Field, 5 member team)
● Worked as a Trainee Mechanical Engineer and Learned about various Mechanical equipment, Pollution control and various safety measures taken by the organization.
● Detailed Analysis of Packing Plant and cement mill.
● Exposure of Interrelated department in Production of cement.

EXTRACURRICULARS

▪.**MICROSOFT** Virtual Experience Program Participant 2020.Participated in the open access MICROSOFT Virtual Experience Program with InsideSherpa.
▪ **Managing Head** of LAN Gaming event Renaissance 2k19.
▪Teaching **50+** students for FREE on Weekends.

HOBBIES & INTERESTS

CSGO, Playing Video Game, Watching Web-series