

# HIMANSHU ARORA

## Indian Institute Of Technology Ropar

@ 2018eeb1152@iitrpr.ac.in    in himanshu2309    Q victorX101

## EDUCATION

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B.Tech.(ME) - 8.11 CGPA

Indian Institute Of Technology Ropar

📅 July 2018 – Currently(4th sem)

Higher Secondary - 91.6%

Central Board of Secondary Education

📅 2018

Secondary - 10 CGPA

Central Board of Secondary Education

📅 2016

## TECHNICAL SKILLS

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- Data structures , Algorithms , Deep Learning , ubuntu , LATEX
- C , C++ , Python , HTML5 ,CSS
- Tkinter , openCV, Tensorflow , Numpy , Matplotlib

## ACHIEVEMENTS

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- Passed JEE Mains With an All india rank of 8451 among 1.5 million students.
- All india rank 3451 in JEE Advance 2018
- Passed UGEE 2018 conducted by IIIT Hyderabad

## EXPERIENCE

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- EVENT SUPERVISOR in Zeitgeist 2k19 from august 2019 to october 2019
- Volunteered in the BAJA-SAE India event held at IIT Ropar.
- Attended WAC Workshop on Ethical Hacking held in march 2019.
- A part of IIT Ropar contingent in Inter IIT Cultural meet 2018.
- Sponsorship head for Fresco 2019.

## PROJECTS

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### Security camera using jetson-nano

- Project consists of a python program deployed on a nvidia jetson nano. It extracts facial embeddings, quantifies each face to a 128d feature vector and compare it with a known dataset of faces in real time.
- It has an accuracy of 99 % in identifying a face.

### Min Cost Arborescence in Graph Theory

- Implemented Chu Liu/Edmonds Algorithm to find minimum cost spanning tree in a directed graph using both adjacency list and adjacency matrix representation of graph.

### Stack based Calculator using Tkinter

- A stack based calculator which evaluates expression strings having both single ,dual operators and also identifies expressions having errors.
- It has a basic Tkinter based GUI for its working.

### Basic Hand Gesture recognition using openCV

- A python program which uses area ratios and contours to detect number of fingers and basic hand gestures using openCV.

## RELAVENT COURSES

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- Neural networks and Deep learning (Coursera)
- Data Structures and Algorithms
- Introduction To Computing
- \*Probability and Statistics
- Differential equations
- English Communication Skills