



## Apoorv Negi

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### EDUCATIONAL QUALIFICATIONS

Year	Degree	School/Institute	Board/University	%age /CGPA
2021	B.Tech-C.S.E	Chandigarh Engineering College, Landran	I.K.G. Punjab Technical University	8.25
2017	10+2	Army Public School No-2, Roorkee	CBSE	80.2%
2015	Matric	Army Public School No-2, Roorkee	CBSE	9.4(CGPA)

### ACADEMIC ACHIEVEMENTS

- **Winner** at the “Smart India Hackathon-2019” (Hardware Edition).
- **Winner** in “Project Display-by Expertshub Industry Skill Development Center (Sonipat).
- **Winner** in “Project Display-by Expertshub Industry Skill Development Center (Bangalore)
- **“BEST INTERN”** at Expertshub Industry Skill Development Center (ML-AI Winter).
- **“BEST INTERN”** at Expertshub Industry Skill Development Center (IOT-Summer)
- **Invited** for National Bootcamp for business development organized by MHRD and A.I.C.T.E.
- **Selected** for National convention of Chhatra Vishwakarma Awards 2019 by A.I.C.T.E.

### Patents

- 202011002721: Emotion Recognition System
- 201911047896: System for Monitoring Environmental Conditions

### Certifications:

- Oracle Cloud Infrastructure Foundations 2020 Associate (**Oracle Certified Associate**)
- AWS Educate : Machine Learning Scientist
- Udemy: Machine Learning, Data Science and Deep Learning in Python
- IBM: Machine Learning with Python (Cognitive Classes)
- Coursera: Introduction to Data Science (University of Michigan)
- Coursera: Applied Machine Learning with Python (University of Michigan)



### SOFTWARE COMPETENCIES

Operating Systems	:	Windows, Linux
Languages known	:	C, C++, Python, HTML, CSS
Database(s) known	:	MySQL
Other Interests	:	Internet of Things, Machine Learning

## PROJECTS UNDERTAKEN

1. Project Name: PEDESTRIAN SAFETY DEVICE IN AUTOMOBILES		
Environment	:	Ubuntu, Windows10, Nvidia Jetson Platform
Languages/Database	:	C++, Python
Team Size	:	6
Project Description	:	<ul style="list-style-type: none"> <li>Developed this under the problem statement provided by MAHINDRA &amp; MAHINDRA for SIH-2019 and were declared as WINNER.</li> <li>It is designed keeping in mind the safety of pedestrian on the road.</li> <li>After pedestrian detection it is capable of taking certain evasive measures such as Automatic Emergency Braking System (AEBS).</li> </ul>
Project Role	:	<ul style="list-style-type: none"> <li>Team Leader</li> <li>Machine Learning Detection and hardware interfacing.</li> </ul>

2. Project Name: HUMAN EMOTION RECOGNITION BASED FEEDBACK SYSTEM		
Environment	:	Windows 10
Language	:	Python
Team Size	:	4
Project Description	:	<ul style="list-style-type: none"> <li>Ditching the conventional techniques used for feedback collection and management I collaborated with students from <b>University College Leuven-Limburg</b> and <b>Howest Brugge</b> to create a system that produces a feedback report.</li> <li>It works on the basis of subject's emotions and is currently filed for a patent.</li> <li>Subject's emotions are recorded and then the feedback report is generated.</li> </ul>
Project Role	:	<ul style="list-style-type: none"> <li>Project Co-Ordinator</li> <li>Front end development and Model Inferencing</li> </ul>

3. Project Name: INNUVA: SMART IRRIGATION ASSISTANCE SYSTEM		
Environment	:	Arduino Microcontrollers, Embedded on ESP8266 NodeMCU
Language	:	C++ and Internet-of-Things
Team Size	:	5
Project Description	:	<ul style="list-style-type: none"> <li>Wireless irrigation system control for farmers.</li> <li>A handheld console is provided for the farmers in order to receive live updates from the fields regarding the soil moisture and nutrient content</li> <li>The farmer, on the basis of these updates can control his irrigation pumps wirelessly up-to a distance of 2 kilometres.</li> </ul>
Project Role	:	<ul style="list-style-type: none"> <li>Team Leader</li> <li>Cloud Integration and networking</li> </ul>

4. Project Name: ParkAssist : Parking Management System		
Environment	:	Python Tkinter GUI, MySQL Database, Windows
Language	:	Python, MySQL
Team Size		Individual
Project Description	:	<ul style="list-style-type: none"> <li>• Parking management and bill generation system built as a commercial solution for Municipal Corporation of Rishikesh.</li> <li>• Implemented at I.S.B.T. Rishikesh.</li> <li>• Uses backend database to manage the vehicle parking data entered using GUI and dynamically calculates bill amount depending upon the time spent in parking.</li> <li>• Integration with EPSON printer module assists in printing bills using a thermal printer</li> </ul>
Project Role	:	Developer

## EXPERIENTIAL LEARNING / INDUSTRIAL TRAINING

- **Organization:** ThinkNext Technologies Private Limited
- **Project Details:** Face recognition system using python.
- **Duration :** 6 Weeks
- **Experiential Learning:**
  - Learnt basic usage of python and introduction to frameworks like Django.
  - Learnt about face\_recognition library.
- **Organization:** ExpertsHub Industry Skill Development Center (Sonipat)
- **Project Details:** EmoGing
- **Duration :** 8 Days
- **Experiential Learning:**
  - Studied Python and Machine Learning.
- **Organization:** ExpertsHub Industry Skill Development Center(Bangalore)
- **Project Details:** CityMAX Air and Noise Pollution reporting system
- **Duration :** 8 Days
- **Experiential Learning:**
  - Studied Internet-of-Things.
  - Got to know about air and noise pollution of different cities.

## INTERPERSONAL SKILLS

- Experience of working in roles of Leadership.
- Ability to communicate with people in a confident way.
- Ability to work under pressure, displaying a calm attitude towards a problem.
- Good presentation skills.
- Ability to work in a team and set up trust.

## EXTRA-CURRICULAR ACTIVITIES

- Actively mentored projects in the college. (2019-2020)
- Coordinator at the SIH - Feedback Session at our college. (2019)
- Third position in “Exuberance” organized by American Chemical Society. (2017)
- Co-Ordinator at International BusIT week 2019.
- Co-Ordinator at International BusIT week 2020.

## HOBBIES/INTERESTS

- Hardware Tinkering
- Travelling
- Photography

## PERSONAL INFORMATION

**Date of Birth** : 26 June 1999

**Gender /Marital Status:** Male /Unmarried

**Language Proficiency:** English, Hindi

## DECLARATION

*I do hereby declare that the above information is true to the best of my knowledge.*



\_\_\_\_\_(Signature)

**Name:** Apoorv Negi

**Date:** 18-September-2020

**Place:** Roorkee, Uttarakhand