# Pankaj Pundir

# Department of Computer Science & Engineering,

# National Institute of Technology, Uttarakhand 246174.

# Cell: +91-7895289895 E-mail: [pankaj369.cse16@nituk.ac.in](mailto:pankaj369.cse16@nituk.ac.in)

**Area of Interest**

Computer Vision, Deep Learning, Artificial intelligence, Data Science, Data Structures and Algorithms

# Educational Qualification

# National Institute of Technology (NIT), Uttarakhand, India 03/2019-present

Bachelor of Technology, Computer Science & Engineering (5th Sem.) ***8.83 CGPA***

|  |  |
| --- | --- |
| Network Security | Data Structures & Programming |
| Algorithms | Operating Systems |
| Data Science | Computer Vision and Image processing |
| Artificial intelligence | Neuro Fuzzy technique |

# Central Board of Secondary Education, New Delhi 04/2014-03/2015

# Vivekanada School, Jogiwala, Dehradun

# Senior Secondary School, *91.6%*

# Central Board of Secondary Education, New Delhi 04/2012-03/2013

# Vivekanada School, Jogiwala, Dehradun

# Secondary School, *10 CGPA*

# Technical Skills

|  |  |
| --- | --- |
| **Languages** | C++, Python |
| Database Systems | MySQL |
| **Environmental Packages** | pandas, seaborn, Matplotlib, Kivy |
| **Web Development** | JavaScript, jQuery, CSS, HTML, PHP |
| **Computer Vision** | OpenCV |
| **Deep Learning** | PyTorch, Keras |

# Current Project - Ongoing

## Currency Classification and Description

## Technologies: Deep Learning, OpenCV, Python

**Synopsis:** The project is designed for automation in currency detection and finding its denomination value. Very useful in currency exchange center and for Visually impaired people. Helps in keeping track of the exchange of different currencies.

## Hand Gesture Detection and System Control

## Technologies: Python, OpenCV

**Synopsis:** This project is designed for identifying hand gestures to control computer. This will eliminate the need of mouse as well as keyboard, efficiently usage of computer resources by applying multi user for single system.

## Synchronous Traffic Control

## Technologies: Python, OpenCV, Reinforcement Learning

**Synopsis:** The designed system schedules the traffic in an efficient manner with known future inputs. This method Is very much promising for heavy traffic countries and give more security as advance features like **accident detection** is implemented. Routing traffic and providing **Green Corridor** in emergency condition.

# Projects

## License number extraction using OpenCV

## Technologies: Python, OpenCV

**Synopsis:** The project is designed for extraction of license plate number in real time. It tackles various challenges like rotated plate, real time traffic. It uses OpenCV and Tesseract –OCR to implement text extraction method.

## Instant Attendance

## Technologies: PHP, CSS, JavaScript

**Synopsis:** The project is designed for reducing the time taken during attendance in college/ school. Online platform is created to mark attendance with two available options.

* + Normal mode: Teacher will speak the roll number and mark attendance on the go.
  + Instant mode: Teacher will create a code which allow students to mark attendance in real time as code is shared with students via private medium.

This reduces the attendance time to 20 seconds or less. Can be implemented within local network and online.

## Fig Sense: Fully automated Graph Reader

## Technologies: *Python, OpenCV*

**Synopsis:** This project is designed for extraction of information from chat images. Currently the software is made to classify and extract bar and line images. The software readout the content using basic text summarization. Thus, useful for blind people for graphical data interpretation.

**Work Experience**

* **Summer Intern, IIT Ropar**. Rupnagar, Punjab
  + **Duration** : May. 2018 – Jul. 2018 (2 Months)
  + The internship deals with product development using **Computer Vision and Machine Learning.** Derived a method for **Data Extraction and classification of line and bar charts.** The Accuracy of model and technique derived was promising.

**Extracurricular**

|  |  |
| --- | --- |
| * Technical Coordinator (CSE) | 2017-2018 |
| * Coordinator (CSE) Cliffesto | 2018 |
| * Event Head (PRODYOGEEKY TECH MEET 2017 NITUK) | 2017 |
| * Coordinator Kodesk Club NITUK | 2017-2018 |
| * Joint Secretary of Kodesk Club NITUK | 2018-2019 |
| * Codathon Ambassador (online coding competition MNIT Bhopal) | 2018 |

# Personal Information

|  |  |
| --- | --- |
| D.O.B | 20/01/1998 |
| Marital Status | Single |
| Language Known | English, Hindi |

|  |  |
| --- | --- |
| **Date: 10/03/2019** | **Candidate**: Pankaj Pundir |

#References would be provided on request.