

# Pankaj Pundir

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## Education

### NATIONAL INSTITUTE OF TECHNOLOGY, UTTARAKHAND

B.TECH IN COMPUTER SCIENCE

2016 - 2020

Srinagar (Garhwal), Uttarakhand

CGPA: 8.7/10

### VIVEKANANDA SCHOOL

INTERMEDIATE - 91.6%

June 2015| Dehradun, Uttarakhand, India

### VIVEKANANDA SCHOOL

MATRICULATION - 10 CGPA

June 2013| Dehradun, Uttarakhand, India

## Projects

### CORTEX-BOT | MANAGE STOCKS WISELY

Algo Trading platform to provide valuable trade suggestions using Technical analysis and Machine learning techniques.

#### [CortexBot Live Demo](#)

- Place Trade via a broker
- Backtest your strategy [5yrs data]
- Analysis Tools and visualization
- Trade suggestions in WhatsApp

### SWIFT-CONTROLLER | COMPUTER VISION BASED MOUSE CONTROLLER

A color-coded glove to control mouse gestures using computer vision.

### POCONET | A PATHWAY TO SAFETY

Designed a system - POthole CONvolution Network to automate the process of detection of potholes for road assessment.

#### [POCOnet Demo](#)

### FIG SENSE | FULLY AUTOMATED GRAPH READER

Extract data points from chart images and infer data for the visually impaired.

## Skills

### PROGRAMMING

Java • Spring Boot • MySQL • Python • C++ • React • PyTorch • Pandas • PySpark • Reinforcement Learning • Machine Learning

### TOOLS AND TECHNOLOGIES

Kafka • Grafana • Kubernetes • Redis

## Experience

### GROWW | CREDIT TEAM | SOFTWARE ENGINEER 2

Feb 2022 - Present | Bangalore, India

- Designed and developed real-time loans flow for groww users.
- Integrated major banks [IDFC] and NBFCs [ABFL, GCS].
- Designed **User journey** and contributed on **Business rule engine** to determine user **Credit worthiness** and generate **Real Time offers**.

### BANK OF NEW YORK MELLON | SOFTWARE ENGINEER

July 2020 - Feb 2022 | Pune, India

- Developed understanding on Bank functionalities.
- Used **PySpark**, **Jupyter** and **Pandas** to analyse data and create pipeline for Regulatory Reporting.
- Built intuitive dashboard using **Python**, **Dash** and **Plotly**, for visualising and extracting insights form data.

### BANK OF NEW YORK MELLON | SOFTWARE ENGINEER INTERN

Jan - June 2020 | Pune, India

- Applying Software engineering best practices.
- Responsible for developing Workflows with **PySpark** and using **Airflow** scheduler. Working on **Big Data** Technologies.

### IIT ROPAR | RESEARCH INTERN

May 2019 - Jul 2019 | Punjab, India

- Chart Image classification using Deep learning and ML Techniques
- Designed Region-based text categorization technique for Chart images.

### IIT ROPAR | RESEARCH INTERN

May 2018 - Jul 2018 | Punjab, India

- Done Research and derived a method for Data Extraction and classification of line and bar charts.
- Design and deliver technology to assist people with disabilities.

## Achievements

- 2019 Finalist - **Road Safety Hackathon** at IIT Guwahati
- 2018 **Kodesk Coordinator**— programming club - NIT Uttarakhand.
- 2017 **Technical Coordinator**: CSE Dept. - NIT Uttarakhand
- 2017 Organized the **PRODYOGEEKY** annual TECH MEET

## Publications

- [1] P. Pundir, A. Agarwal, and K. Kumar. Swift controller: A computer vision based mouse controller. In *Conference Proceedings of ICDLAIR2019*, pages 201–209. Springer International Publishing, 2021.
- [2] P. Pundir, S. Aggarwal, and M. Deshmukh. Malaria detection using convolutional neural network. In *International Conference on Advanced Machine Learning Technologies and Applications*, pages 187–195. Springer, 2020.
- [3] P. Pundir, S. Gupta, R. S. Patel, R. Goswami, D. Singh, and K. Kumar. Poconet: A pathway to safety. In *Conference Proceedings of ICDLAIR2019*, pages 299–306. Springer International Publishing, 2021.