

# 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

### SWIFT-CONTROLLER | COMPUTER

VISION BASED MOUSE CONTROLLER  
A color-coded glove to control mouse gesture 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

Designed for extraction of textual information from chart images.

### CORTEXBOT | MANAGE STOCKS WISELY

A scalable application to provide valuable trade suggestions using Machine learning techniques. **CortexBot.in**

## Skills

### PROGRAMMING

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

## Experience

### GROWW | SOFTWARE ENGINEER

Feb 2022 - Present | Pune, India  
• Creating API and other features for the Credit Team.

### 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 from 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 classification using Deep learning  
• Analysing different research work.  
• Implemented Region based text categorization technique.

### 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.