

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 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

Designed for extraction of textual information from chart images.

CORTEXBOT | MANAGE STOCKS WISELY

An Algo Trading platform to provide valuable trade suggestions using Technical analysis, news sentiments, and Machine learning techniques. **CortexBot Live**

Skills

PROGRAMMING

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

Experience

GROWW | SOFTWARE ENGINEER

Feb 2022 - Present | Pune, India

- Worked on spring boot, and micro-service to build out a robust system
- Designed user flow and enabled real time loans for all groww users.
- Integrated multiple major banks and NBFCs.
- Enhanced User journey, KYCs and Business rule engine.

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 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.