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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 - CGPA 10/10
June 2013| Dehradun,Uttarakhand, India

Links

Github:// **pankaj-pundir**
LinkedIn:// **pankaj-pundir**
pankaj-pundir.github.io

Coursework

UNDERGRADUATE

Data Structures & Programming
Algorithms
Operating Systems
Artificial Intelligence
Database management System
Network Security
Computer Vision & Image Processing
Neuro Fuzzy Techniques

Skills

PROGRAMMING

Python • C • C++ • Javascript
Angular7 • MySQL
Tools and Libraries:
PyTorch • Pandas • CSS • scikit-learn • PySpark • Keras • OpenCV • Seaborn
Familiar:
Airflow • Github • Docker • Jupyter Notebook

Experience

BANK OF NEW YORK MELLON | Software Engineer

July 2020 - Present | Pune, India
Completed **6 Month internship in BNY Mellon | Jan-June 2020**

- 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.
- Write technical reports or other documentation
- Design and deliver technology to assist people with disabilities.

Achievements

2019 Finalist of **Road Safety Hackathon** organised by Bosch at IIT Guwahati
2018 **Kodesk Coordinator**– an official programming club of NIT Uttarakhand.
2017 **Technical Coordinator**: CSE Department at NIT Uttarakhand
2017 Successfully organized the **PRODYOGEEKY** annual TECH MEET
2017 Ambassador of MNIT Bhopal's coding competition - Hackerearth

Projects

SWIFT-CONTROLLER | A Computer Vision based mouse controller

Python, OpenCV
Designed for identifying hand gestures to control mouse inputs. Color coding is used to detect the hand gesture with computer vision. A specially designed glove is used to feed visual input to computer.

POCONET | A pathway to Safety

Python, OpenCV, Yolo (object detection)
Designed a system - POthole COnvolution Network to automate the process of detection of potholes for road assessment. Deep Learning model YOLOv2 is used for detection. **POCOnet Demo**

FIG SENSE | Fully automated Graph Reader

Python, OpenCV, Machine Learning, Kivy, PyTorch
Designed for extraction of information from chart images. Deep Learning model are used for classification. Currently the software is made to classify and extract bar and line chart Information with computer vision Technique.

MALARIA DETECTION

Python, OpenCV, Keras
Automate the malaria detecting process by providing the image of red blood cells of the patient.