Roll No. BT16CSE009

Bachelor of Technology

Branch: Computer Science

National Institute of Technology, Uttarakhand

PANKAJ PUNDIR

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OBJECTIVE

Seeking a position in engineering environment to fully utilize my training and skills, while making a significant contribution to the success of the company.

EDUCATIONAL QUALIFICATIONS

Examination	Board/ University	School/Institute	Year of Passing	CGPA/%
B. Tech. (CSE)	National Institute of Technology, Uttarakhand	National Institute Technology, Uttarakhand	2020	8.69
Sen. Secondary	Central Board of Secondary Education	Vivekananda School, Dehradun	2015	91.6
Matric	Central Board of Secondary Education	Vivekananda School, Dehradun	2013	10

AWARDS AND ACHIEVEMENTS

- Participated in **Pseudo-coding TECH MEET** 2016 and achieved 1st prize.
- **Innovation Competition:** Project **Dexterous** got selected for **INNOVATION COMPETITION** held in National Institute of technology Uttarakhand (2017 -2018).
- **Idea** of our team **Nefarious** got Selected for **Final Phase** of <u>Road Safety Hackathon</u> organized by **Indian Road Safety Campaign, IIT Delhi, United nations institute of training and Research** at **IIT Guwahati (2019).**
- Completed **Data science with python** course from Udemy**.**
- Our team **nefarious** got selected for the regional mentoring session organized by **Institution Innovation council**, **MHRD's** innovation cell.

WORK EXPERIENCE

Summer Research Intern at IIT Ropar	21st May – 13th July 2018
Summer Research Intern at IIT Ropar	23st May – 10th July 2019

PROJECTS

1. **Swift-Controller: A Computer Vision based mouse controller**
   Technologies: Python, OpenCV

   This project is 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. Moderate computational resources are required to implement it. Work was accepted in <u>ICDLAIR 2019</u>.

2. **POCONet – A pathway to Safety**
   Technologies: *Python, OpenCV, Yolo (object detection), API's*

   We designed a system **POthole COnvolution Network** to automate the process of detection of potholes for road assessment. Real time video feed is provided to the network, which is then preprocessed and feed into YOLOv2 for detection. This technology will help in keeping track of road conditions and help users to select the most appropriate route. The research paper got accepted in ICDLAIR 2019.

3. **Fig Sense: Fully automated Graph Reader**
   Technologies: *Python, OpenCV, Machine Learning, Kivy*

   This project is designed for extraction of information from chart images. Currently the software is made to classify and extract **bar and line chart images**. The software will readout the content using basic **text summarization**.

4. **Malaria Detection - Deep learning**
   Technologies: *Python, OpenCV, Keras*

   The project is used to automate the **malaria detecting process** by providing the image of red blood cells of the patient. It is an intensively manual process which is being automated with deep learning.

5. **Instant Attendance**
   Technologies: PHP, CSS, JavaScript

   An online platform is created to mark attendance parallelly. Teacher will create a code and share with the present students. Students can mark their own attendance on the server with the code.
   This reduces the attendance time to 20 seconds or less. Can be implemented within the local network and online.

TECHNICAL SKILLS

Operating Systems: Windows, Linux,
Programming Languages: C++14, Python
Tools and Software: PyTorch, Keras, Kivy, Git, Pandas, Numpy, matplotlib, OpenCV

PARTICIPATION IN INSTITUTE ACTIVITIES

- **Technical Coordinator** for Computer Science Department at National Institute of Technology Uttarakhand (2017-2018).
- **Coordinator** of Computer Science Tech team of annual cultural fest **CLIFFESTO 2018** of National Institute of technology Uttarakhand.
- **Event Head:** Successfully organized the **PRODYOGEEKY** annual **TECH MEET 2017** held a National Institute of technology Uttarakhand (2017 -2018).
- **Coordinator** for **Kodesk** – an official programming club of National Institute of technology Uttarakhand.

EXTRA CURRICULAR ACTIVITIES

- **Codathon Ambassador:** ambassador of MNIT Bhopal's online coding competition organized with **Hackerearth** (during their Annual Fest).
- **InterviewBit Campus Ambassador**: Handling a Nationwide event **codersBit** for the college NIT Uttarakhand.

HOBBIES

- o Solving riddles.
- o Meditating.
- o Competitive Coding
- o Watching Movies and Seasons

PERSONAL DETAILS

Father's Name: Mr. Bharat Singh Pundir

Permanent Address: B-160, Sector –4, Defence Colony, Dehradun, Uttarakhand, 248001

Languages Known: Hindi, English

Declaration: I hereby declare that all the details furnished above are true to the best of my knowledge and belief.

Pankaj Pundir