Mayank Vaishya

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SKILLS

- **Python3** — EXPERT
- **Data Structures** — EXPERT
- **Machine Learning** — INTERMEDIATE
- **Data Science** — INTERMEDIATE
- **Web Scraping** — INTERMEDIATE
- **SQL** — INTERMEDIATE

EDUCATION

COLLEGE

Punjab Engineering College   *CGPA-8.95*

Jul 2018 – Present

- Electronics and Communication Engineering

SCHOOL – XII

S.G.H.M.S, Chandigarh   *% - 84.2 %*

Jun 2017 – Jun 2018

- CBSE Board

POSITION OF RESPONSIBILITY

SECRETARY : ASME - PEC   *2021-2022*

- Organized ASME-EFX with 200+ footfall
- Supervised a team of 4 to make the in-house project (3D-scanner)
- Organized CADventure online event with 25 entries
- Organized treasure hunt event with 50 entries

WORK EXPERIENCE

Globalink Research Intern

York University, Canada   May – Aug 2021

- I was an international intern in York University, where I was assigned the project "Application of deep learning to water resources management". The project required me to predict water levels of a particular point in Toronto river and look out for anomalies that indicated floods or droughts.
- The project required knowledge of data science to process data and machine learning to make CNN model to predict the data.

Project Assistant Intern

CSIO-CSIR   Jan – May 2021

- I was an intern in the Biomedical and Instrumentation division, where I developed an Application Program using python for a dialysis machine.
- The applications backend handled its interaction with Raspberry pi, Arduinos and multiple sensors while the frontend, made using tkinter library, handles the interaction with the user.

Project Assistant Intern

CSIO-CSIR   Nov 2019 – Jan 2020

- I was an intern in the Biomedical and Instrumentation division, where I developed an intelligent attendance system using facial recognition. This project provides us with a better alternative to the traditional roll call.
- Using facial recognition, it recognizes the face of the person in front of the camera and registers his/her name in an excel sheet complete with respective date, attendance time, and student ID. This project aims to save precious time and energy which is otherwise being wasted due to the manual process.

PROJECTS

TEXT FILE COMPRESSOR @   Jul 2019

- The program compresses text files using Huffman algorithm, which is a lossless data compression algorithm, using data structures like trees and heaps in python.

INSTAGRAM BOT @   Aug 2020

- This program, made by Selenium and Beautiulsoup, creates an automated bot which can be used in various ways to boost your profile (follower count) or extract information from the millions of Instagram handles.

NEURAL MACHINE TRANSLATER @   Feb 2021

- This program creates a French to English translator using recurrent neural networks.

3-D SCANNER @   Aug-Nov 2021

- This is a team project to make a 3D scanner to digitize and clone objects around you.
- The project required skills in CAD, PCB designing, electronics, and programming.

ACHIEVEMENTS

- **I was among the top international participants in Mitacs programme and was awarded an internship at York University Canada.**
- **Offered FTE opportunity at JPMorgan Chase & Co. as Software Engineering Programme, through Code for Good hackathon 2021.**