+91-7876755273 2020eeb1144@iitrpr.ac.in GitHub Linkedin

## **EDUCATION**

Degree	${\bf Institute/Board}$	CGPA/Percentage	Year
Bachelor of Technology	Indian Institute of Technology, Ropar	8.09	2020-2024
Senior Secondary	Central Board of Secondary Education	95.4%	2020
Secondary	Central Board of Secondary Education	93.2%	2018

#### EXPERIENCE

## • Samsung R&D Institute India, Bangalore

June 2023 - August 2023

Memory Optimisation of Header Files

SDE Intern

- Interned under the MAC Interop division of the Network Modem Team.
- Got to know about the concept of Data Padding in compilers & also about the additional memory that is used due to this.
- Optimized memory utilization by efficiently managing additional memory to prevent wastage.
- Implemented this process in Python for header files containing C structures with diverse data types and parent C structures.

# Research Intern at IIT Ropar

May 2022 - July 2022

Guide: Dr. Ashish Sahani

Summer Intern 2022

- Worked on detection of Seizures by the help of pose detection of the patient.
- Used OpenCV and Mediapipe for Pose Detection and then built a LSTM Model with Attention for Seizure Detection

#### **PROJECTS**

• PlantDoc Jan 2023 - May 2023

Under the Guidance of Dr.Subrahmanyam Murala (Group Project)

Github

- Developed a Deep Learning Model using MobileNetV1 architecture for disease detection in potato & corn crops based on leaf images and used transfer learning to achieve high accuracy
- Hosted the model on Google Cloud Platform (GCP) and integrated it into a mobile application using Flutter

## · CDPC Manager

June 2023

 $Tools\ Used:\ Django\ ,\ HTML\ ,\ CSS\ ,\ SQLite$ 

Github

- Co-designed and constructed a Django-based website for the college's Career Development and Placement Cell (CDPC) competition
- Implemented features such as Institute ID-based authentication, multi-level user roles, and advanced filtering

### Recolorization of GrayScale Images

April 2023 Github

Tools Used: Tensorflow, Scikit learn, Matplotlib (Group Project)

- Generated colored images from grayscale images using GANs
- Used U-Net Architecture for Generator whereas for discriminator implemented a convolutional-based classifier

#### • PageRank Algorithm in C++

July 2022

Concepts: Markov Chains, Graphs (Group Project)

- Efficient PageRank algorithm for ranking web pages.

 $\mathbf{Git}\mathbf{Hub}$ 

- Implemented Random Surfer Model and iterative algorithm for website importance & used Adjacency List for graph representation.

## TECHNICAL SKILLS

- Programming Languages: C/C++, Python, MATLAB
- Development Tools/Framework: HTML5, CSS, Django
- Tools/Libraries: OpenCV, Mediapipe, TensorFlow, Kearas, PyTorch

## KEY COURSES TAKEN

- CSE & Maths: Data Structures & Algorithms , Linear Algebra , Machine Learning , Artificial Intelligence (Ongoing) , Foundations of Data Science (Ongoing)
- Core Electrical: Communication Engineering, Digital Circuits, Control Engineering, Circuit Theory, Signals & Systems

## Positions of Responsibility

• Representative, AI Club, IIT Ropar

July 2022 - Nov 2022

Founded and led the AI club, promoting skill development and event participation.

### MISCELLANEOUS

- \* Cleared SWC Advanced Test during my internship in Samsung
- \* Among the top 10,000 candidates out of 1.5 lakhs candidates in JEE Advanced 2020
- \* Secured Zonal Rank of 2 (in HP and J& K region) in NSO-SOF