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Education

Indian Institute of Technology Ropar

Ropar, India

July 2017 - Present

B.Tech. IN Computer Science and Engineering

(Expected May 2021)

CURRENT C.G.P.A: 8.84/10

Secondary Education

TSBIE (CLASS 12, 2017): **97.6**% CBSE (CLASS 10, 2015): **10.0 CGPA**

Skills

Programming Languages C/C++, Python

Frameworks / Libraries MongoDB, SQL, Tensorflow, Keras, FastAl **Softwares / Tools / OS** Android Studio, Git, Arduino, Linux

Work Experience

Nutanix, Pune, India

C++, C

Apr - June 2020

Key-Value store for Persistent MemoryMTS INTERN

• Worked on optimizing key-value store for Persistent Memory.

Spectrum Lab, IISc, Bangalore 3D Point Cloud Registration using Deep Autoencoder Under Dr. Chandra Sekhar | Python,

Open3D

RESEARCH INTERN May - July 2019

- Used deep learning approach to solve the problem of 3D registration of point clouds.
- Used Autoencoder to get potential matching regions in point clouds.

Projects

Media Monitoring System

Python, BeautifulSoup | March 2019

- An app and webapp made as a media monitoring system for Ministry of Railways, Govt. of India.
- Involved news scrapping from prominent new websites.
- Used Bing API for similarity check and ParallelDots API to get sentiment score.

Faculty Leave Portal PHP, MongoDB, SQL | Fall 2019

- Developed a portal for handling leave applications in an academic institute environment.
- Used both NoSQL (MongoDB) and PostgreSQL for database management.

Gesture Recognition using Myo-Armband

Python, Qt (C++) | Nov 2018

- Worked under Dr. Puneet Goyal, IIT Ropar.
- · Used Myo Armband for getting EMG and pose information and neural networks for classification.
- Used Qt framework to develop basic GUI for gesture detection.

Recommendation Systems

Python | October 2019

- Used Collaborative Filtering to develop recommendation system for movies in an explicit feedback scenario.
- Developed and compared various types of the same, i.e. user based, item based, using clustering etc.

Other ProjectsMiscellaneous

- Performed Satellite Image Segmentation by using modified u-net architecture.
- Implemented basic reinforcement learning algorithms in OpenAI Gym.
- Did Object Localisation using Keras in FlipkartGrid Challenge.
- Did work on quality assessment of wikipedia articles based on various factors.
- Made a mechanical prosthetic arm controlled using EMG sensors via Arduino..
- Implemented K Means from scratch in C++ for spam detection in SMS using NUS SMS Corpus.

Relevant Courses

Computer Science

Data Structures, Digital Logic Design, Computer Architecture, Applied AI, Introduction to Database Systems, Design &

Analysis of Algorithms, Operating Systems, Computer Networks, Software Engineering

Mathematics Discrete Mathematics, Linear Algebra, Probability and Statistics, Differential Equations

MOOCs Practical Deep Learning(FastAi)

Miscellaneous_

Smart India Hackathon Winner at Smart India Hackathon (Govt. of India) Software Version (Under Ministry of Railways), Nagpur, India 2019

Inter IIT Tech Meet Got 4th position in an event with problem statement being satellite image labelling, Dec 2018.

KVPY Fellow Qualified for the KVPY Fellowship program by DST, Govt. of India. (2016)

JEE Rank Secured a rank of **1470** (Out of **1.5 million candidates**) in Joint Entrance Exam, 2017.

Institute Scholarship Recipient of JEE Merit Scholarship from the institute.

Debating Member of debating team of the institute. Finalists in SRCC's SRDF, New Delhi 2019 (Novice Category).