



Hanumat Lal Vishwakarma

Master of Technology
in Computer Science and Engineering
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EDUCATION

Degree	Institute/Board	CGPA/Percentage	Passing Year	Rank
Master of Technology in CSE	Indian Institute of Technology, Ropar	7.15 (Till Sem2)	2023	-
Bachelor of Technology in CSE	National Institute of Technology, Manipur	8.41	2019	4
Senior Secondary(12th)	UP Board	83.20%	2013	1
Secondary(10th)	UP Board	77.50%	2011	3

EXPERIENCE

- Teaching Assistant | Indian Institute of Technology,(IIT) Ropar** 2021-present
Subject : (GE103) Introduction to computing and data structure
– Contributed in doubt solving ,assignment checking, exam invigilation, grading and setting the assignments
- Human Posture Detection using HOG feature and SVM classifier | Summer Internship** May-July2018
Motilal Nehru National Institute of technology, Allahabad
– Skills: Python ,Numpy ,OpenCV ,Basics of Machine Learning.
– We Created human classifiers using the hog feature and SVM classifier where a person can be in any posture like sitting, standing, etc. Using the classifier/model created, we implemented a human detection system which is successfully able to detect a person from images, videos, and also in real-time

PROJECTS

- Dynamic Graph data structure | MTech thesis projects** Ongoing.
Under Guidance : Dr. Anil Shukla, Assistant Professor ,IIT Ropar Github
* Skills: Graph, BST, Splay Tree, Online-Bipartite matching.
* Currently Exploring existing dynamic data structures and their algorithms. I am reading various latest research papers related to online-bipartite matching.
- Exploring Issues in Set Based Partitioning from Last-level Cache | Course Project** March-May2022
Under Guidance : Dr. Shirshendu Das , Assistant Professor ,IIT Ropar Github
* Skills: C/C++, Champsim Simulator, Memory Systems & Architecture, Research paper survey.
* A Research Project ,reading various research papers related to cache replacement policies and cache partitioning. Implemented: static and dynamic set-based partitioning on last-level-cache memory in champsim simulator. Found three limitations in set-based partitioning.

TRAININGS & CERTIFICATES

- C Programming(Advance) e-Certification Test by StudySection,** 2022
Test Score 73.33% ,Global rank: 81,Reference Test ID: 558638.
- Edscouts Training, Applied Data Structures and Algorithms with C++,** Aug-Sep2021
Skilled: Data Structures and algorithms problem solving using C++. Certificate ID: 21JAAA94.
- Internshala Training, Programming with C and C++,** June-July2017
Skilled: C/C++(Advance), OOPs Concepts; Final Assessment Score 82.50% ,Certification Number: 4719008895967a5018871d

TECHNICAL SKILLS

- Programming Languages:** C/C++(advance), Python(Basic), Structured query language(SQL).
- Limited Exposure:** Java, Pandas, Numpy, OpenCV, Git, Linux, Latex ,HTML & CSS

KEY COURSES TAKEN

- M.Tech:** Computer Systems, Memory System and Architecture ,Internet of things, Scheduling and processing in distributed systems, Research Methodology, Graph Theory, Mathematics for foundations in Computer Science
- B.Tech:** Programming languages, Data Structures, Algorithms, Operating System ,Database management system, Computer architecture, Discrete Mathematics , Linear Algebra, Probability

POSITIONS OF RESPONSIBILITY

- Volunteer**, OUGRI, technical and cultural fest, NIT Manipur 2018-19
- Vice captain**, Intra-NIT cricket ,NIT Manipur 2017-18

MISCELLANEOUS

- Academic Performances**, Rank 4 in CSE department NIT Manipur. Rank 1 in class 12th. Rank 3 in class 10th.
- Cleared Gate exam 2020**, Gate Percentile: 98.62 ,AIR 1343. 2020
- Got offer of admission from IIT Ropar, IIIT Bangalore/Delhi, NIT Karnataka(Surathkal) ,Bits Pilani ,IIT Jodhpur/Palakad
- Cleared Gate exam 2019**, Gate Percentile: 92.17 ,AIR 7823 2019
- Cleared JEE-Main exam 2015**, Got offer of admission in NIT Manipur for B.tech in CSE 2015
- Interests in**, Teaching ,Yog & Meditation ,Cooking ,Cricket