



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	7.38	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

• DevOps Engineer | Rakuten Group, Inc. Tokyo Japan

From 15th Jan 2024 to present

– Just finished my 3 month Probation period. Learned skills like Jira, Confluence, PowerShell, Git, Github, DOMO-Data Visualization, Azure. Contributing in data visualization for now and hoping to explore many more.

• Human Posture Detection using HOG feature and SVM classifier | Summer Internship

May-July2018

Motilal Nehru National Institute of technology(MNNIT), Allahabad

[Github](#)

– Skills: Python, Numpy, Pandas, Matplotlib, scikit-learn, 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

– Deterministic Graph Sparsification Algorithm for Dynamic Fractional Matching | MTech thesis projects May2022-May2023

Under Guidance: Dr. Anil Shukla, Assistant Professor,IIT Ropar

[Github](#)

* Skills: Dynamic Graph data structure, Dynamic maximum matching Problem, Splay Tree, C/C++

* Designed a new deterministic graph sparsification algorithm for dyanamic fractional matching without losing much on size of fractional matching. Also implemented using C/C++ and tested on both small and large sample of graph. Our algorithm is working correctly and it is 2nd deterministic algorithm for this problems.

– Exploring Issues in Set-Based Partitioning from Last-level Cache | Research 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, Read various research papers related to cache replacement policies and cache partitioning. Implemented: static and dynamic set-based partitioning on last-level-cache memory in the champs 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

–**Major:** C/C++(advance), Python, Numpy, Pandas, Scikit-learn, OpenCV, Structured query language(SQL), PowerShell, Azure, Git & GitHub, DOMO-Data Visualization, Linux

KEY COURSES TAKEN

–**M.Tech:** Research Methodology, Computer Systems, Memory System and Architecture ,Internet of things, Scheduling and processing in distributed systems, Graph Theory, Mathematics for foundations in Computer Science

–**B.Tech:** C Programming languages,C++ Programming languages, Data Structures, Algorithms, Operating System ,Database management system, Computer architecture, Discrete Mathematics , Linear Algebra, Probability, Machine Learning

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/Palakkad

– **Cleared Gate exam 2019**,Gate Percentile: 92.17 ,AIR 7823

2019

– **Cleared IIT-JEE(Main) exam 2015**,Got offer of admission in NIT Manipur for B.tech in CSE

2015

– **Interests in**,Teaching ,Yog & Meditation ,Cooking ,Cricket