

ROHIT JAIN

Software Engineer

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EDUCATION

BE Computer Science

[BITS Pilani, India](#)

Graduated: 2021

CGPA: 8.86/10

High School - CBSE

[VVDAB Public School, Delhi](#)

Graduated: 2017

Class XII: 96.8%

Class X: 10/10 (CGPA)

SKILLS

Languages: C++, C, Python

Frameworks: Pytorch, Tensorflow

Technology: Git, Linux

Softwares: IBM SPSS, Wireshark

COURSES

Object Oriented Programming
Data Structures & Algorithms
Computer Architecture
Operating Systems
Design & Analysis of Algo
Database Systems
Computer Networking
Data Mining
Image Processing
Neural Networks
Compiler Construction
Computer Programming

RESPONSIBILITIES

Teaching Assistant

[Data Mining, BITS Pilani](#)

Duration: 1 year

Head of Design

[TEDx BITS Pilani, 2020](#)

Duration: 1 year

CERTIFICATIONS

Agile Software Development
Deep Learning Specialisation

WORK EXPERIENCE

NUTANIX TECHNOLOGIES, BANGALORE

June 2021 - Present

Member of Technical Staff - 1

- Working on providing real-time monitoring insights for synchronous replication based **disaster recovery** strategies on protected entities.
- Implemented guaranteed hosting of network interfaces on different physical nodes to provide **multi-path IO** services to clients, decreasing **iSCSI** reconnection latencies from **5s to under 0.3ms**.
- Tech Stack: **C++, Python, Git, Gerrit**

NUTANIX TECHNOLOGIES, BANGALORE

Aug 2020 - Dec 2020

Intern, Member of Technical Staff

- Worked on a tool for spontaneous migration of data to faster storage tiers.
- Built an error injection framework for explicitly failing **gRPC requests** for simulation of degraded **distributed cluster**.
- Extended the framework for detection of slow nodes with very few false positives and latency **overheads of less than 0.01ms**.
- Tech Stack: **C++, Git, Gerrit**

SAMSUNG R&D, BANGALORE

May 2020 - July 2020

Software Development Intern

- Created an **android application** that learns the user color-tone preferences via on-device learning approach.
- Trained a **GAN-based Model** for user behaviour learning in a **few shot meta-learning** scenario and achieved good qualitative results.
- Tech Stack: **Java, Android Studio, Python, Pytorch**

CSIR-IGIB, NEW DELHI

May 2019 - July 2019

Research Intern

- Implemented an **entropy** based model for unifying categorical data to perform **clustering** and other data modelling tasks.
- Used divergence model for **classification** of healthy individuals into different Prakriti classes and achieved an **accuracy rate of over 90%**.
- Tech Stack: **Python, pandas, numpy**

PROJECTS

HUMAN DETECTION AND SEGMENTATION

[Object Detection | Deep Learning](#)

Performed a comparative study of various state-of-the-art **computer vision** algorithms for human detection and segmentation. Used COCO dataset for images and, TownCentre and VIRAT dataset for videos to compare **Faster R-CNN, Mask R-CNN** and Pos2Seg Models.

Link: rohit2706.github.io/projects/human-detection

ENTROPY BASED DISTANCE METRIC

[Python Package | Data Mining](#)

Implemented the research paper on Unified EBDM by Zhang et al. and built a **python package** for finding a common **distance matrix** for ordinal and nominal data from any kind of questionnaire data, based on **entropy measures**. Tested the package on multiple datasets for robustness.

Link: github.com/Rohit2706/EBDM

ERPLAG COMPILER

[Compiler Design](#)

Built a compiler for a toy language ERPLAG, in **C language**. Implemented the **compiler design** in four phases: lexical analysis, syntax analysis, semantic checks and code generation.

Link: github.com/Rohit2706/Compiler-Project