

RISHABH JAIN

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[My Portfolio](#)

[LinkedIn](#)

[GitHub](#)

EDUCATION

Indian Institute of Technology, Ropar

July 2019 - May 2023

B.Tech Honors in Computer Science and Engineering

CGPA: 8.7

with Concentration in Artificial Intelligence, Merit Scholar

Honors focus: Federated Learning, Computer Vision

WORK EXPERIENCE

Arista Networks, Bengaluru, India

July 2023- present

Software Engineer, Pluribus Team

- Contributing to performance-centred overhaul of the **Arista Firewall** in the Arista **Extensible Operating System**

General Electric Healthcare, Bengaluru, India

May 2022- July 2022

EID Intern (Software Engineering)

[Certificate](#)

- Improvise the **YOLOv6 algorithm** to implement an end-to-end pipeline for autonomous patient monitoring

RESEARCH WORK AND PUBLICATIONS

Video Transformer Based Bodily Behaviour Recognition (MultiMediate 2023)

May 2023-July 2023

Supervised by Dr. Abhinav Dhall

IIT Ropar

- Secured **second place** in the Bodily Behaviour Recognition track of ACM Multimedia 2023 Grand Challenges
- Co-authored “**MAGIC-TBR: Multi-view Attention Fusion for Transformer based Bodily Behavior Recognition in Group Settings**”, accepted at the **ACM MM 2023 Conference** | [dl.acm.org](#)
- Co-authored “**Multi-View Attention Fusion for Explainable Body Language Behavior Recognition**”, currently in review at **IEEE Transactions on Affective Computing**

Spatio-Temporal Hotspot Detection in Microsoft Azure | BTech Thesis

August 2022-July 2023

Supervised by Dr. Viswanath Gunturi and Microsoft India | [thesis document](#)

IIT Ropar

- Formulated a framework to track **spatio-temporal patterns** of usage spikes(hotspots) in **Microsoft Azure Cloud Services** in India
- Co-authored “**Periodic Spatio-Temporal Colored Hotspot Detection in Azure Traffic Data**” currently in review at the **GeoInformatic Journal**

Epilepto WearOS Application

January 2022-May 2022

Supervised by Dr. Ashish Sahani

[Certificate](#)

- Contributed to novel data transmission algorithm in an **Android cum WearOS smartwatch application** to monitor patients suffering from epilepsy
- Co-authored a conference paper titled “**A General System for Dataset Generation from Smartwatch Sensors for Biomedical Research**” accepted in COMSYS-2022 | [springer](#)

TECHNICAL SKILLS

Languages: C, C++, Python, Java, PostgreSQL, PostGIS, SQLite

Tools and Libraries: Git, Perforce, Bash, Docker, Flask, OpenCV, PyTorch, OpenAI Gym, Numpy, Pandas

KEY PROJECTS

Client Selection in Deep Federated Recommender Systems | BTech Honors Project

August 2022-July 2023

Supervised by Dr. Shweta Jain | [thesis document](#)

IIT Ropar

- Developed client subset selection strategies to optimise costs while training **deep federated recommender systems**

Efficient Image Super-Resolution (NTIRE CVPR Challenge 2023)

February 2023-May 2023

Supervised by Dr. Abhinav Dhall

IIT Ropar

- Achieved a higher PSNR by improving the deep learning based image super-resolution RFDN baseline on DIV2K dataset

Full Stack Employee Application Management Web Portal, IIT Ropar

January 2022-May 2022

Supervised by Dr. Puneet Goyal

IIT Ropar

- Implemented a **full stack web application** with user authentication and multi-stage application propagation as a **part of IIT Ropar's website** in React.js, PostgreSQL and Flask

POSITIONS OF RESPONSIBILITY

Club Head, Robotics Club, IIT Ropar

October 2020-September 2022

[Certificate](#)

- Conducted club mentorship sessions for freshmen and led club projects in the techno-cultural fest Advitiya
- Participated in **ABU-ROBOCON Robotics Competition 2020**, qualifying for the national round of **DD-ROBOCON 2020** held at IIT Delhi