

# Srishti Yadav

Ph.D. Research Scholar,  
Machine Vision Lab,  
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🎓: Google Scholar

## OBJECTIVE

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I am a Ph.D. student at Machine Vision Lab, IIT Roorkee, India, supervised by Prof. Balasubramanian Raman and Prof. Sanjeev Kumar. My primary research interest revolves around Privacy Preserving Deep Learning algorithms. I am looking for a reserach position in the field of data privacy and security that aligns with my mathematics background.

## EDUCATION

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| <b>Ph.D.</b> , Data Science and Artificial Intelligence (pursuing), CGPA: 9.0/10<br>Indian Institute of Technology, Roorkee, Uttarakhand, India.<br>Thesis Area: <i>Privacy Preserving Deep Learning</i><br>Supervisor: Prof. Balasubramanian Raman and Prof. Sanjeev Kumar | July 2022 onwards |
| <b>M.Sc.</b> , Mathematics, CGPA: 7.93/10<br>Banaras Hindu University, Varanasi, Uttar Pradesh, India.  | 2021              |
| <b>B.Sc.(Hons.)</b> , Mathematics, CGPA: 8.58/10<br>Dayalbagh Educational Institute, Agra, Uttar Pradesh, India.  | 2019              |

## ACADEMIC EXPERIENCE

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- Teaching Assistant for B.Tech. 3rd year course **Image and Video Analytics (DA-302)** Spring semester 2024-25.
- Teaching Assistant for the M.Tech. 1st-year course **Advanced Data Structures and Algorithm (DAC-505)** during Autumn semester 2024-25.
- Teaching Assistant for the M.Tech. 1st-year course **Computer Vision (AID-565)** during Spring semester 2023-24.
- Teaching Assistant for the B.Tech. 2nd-year course **Design and Analysis of Algorithms (DA-203)** during Autumn semester 2023-24.
- Teaching Assistant for the B.Tech. 1st-year course **Discrete Structures (DA-104)** during Spring semester 2022-23.

## RESEARCH INTERESTS

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- Differential Privacy
- Machine Learning and Deep Learning
- Incremental Learning
- Spiking Neural Networks
- Federated Learning

## PUBLICATIONS

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1. **Srishti Yadav\***, Anshul Pundhir\*, Balasubramanian Raman, Sanjeev Kumar, “Unveiling Robustness of Spiking Neural Networks Against Data Poisoning Attacks”, **Published** in International Joint Conference on Neural Networks (IJCNN), 30 June - 5 July 2024, Yokohama, Japan. (\*denotes equal contribution).
2. **Srishti Yadav**, Anshul Pundhir, Tanish Goyal, Balasubramanian Raman, Sanjeev Kumar, “Differentially Private Spiking Variational Autoencoder”, **Published** in International Conference on Pattern Recognition (ICPR), 1 - 5 December, Kolkata, India.

## AWARDS & SCHOLARSHIPS

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1. Selected for the prestigious **TCS Research Fellowship** (Cycle-18, 2024).
2. Receiving **MHRD Scholarship** from July 2022 till present.
3. Secured **All India Rank 576** in **GATE, Mathematics (2022)**.
4. Secured **All India Rank 97 (LS)** in **CSIR -UGC NET (2021)**.
5. Qualified **GATE, Mathematics (2021)**.

## TECHNICAL SKILLS

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Programming Languages : Python, MATLAB (acquainted).

Development Tools : PyTorch, Anaconda, Visual Studio Code.

## WORKSHOP/TRAINING/CONFERENCES ATTENDED

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1. Attended 14th Indian Conference on Computer Vision, Graphics and Image Processing, 15-17 December, IIT Ropar, India 2023.
2. Participated in **Mathematics Training and Talent Search Programme** held at **Indian Institute of Technology, Guwahati** from May 28-June 2023 2018.

## RESEARCH COURSEWORK DETAILS

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- Data Structures and Algorithms (AID 525) - Grade Obtained: A
- Big Data Analytics (AID 571) - Grade Obtained: A
- Mathematics for Data Sciences (AID 521) - Grade Obtained: A

## RELEVANT COURSES

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1. **Unsupervised Learning, Recommenders, Reinforcement Learning** authorized by DeepLearning.AI and Stanford University, offered through Coursera.
2. **Advanced Learning Algorithms** authorized by DeepLearning.AI and Stanford University, offered through Coursera.
3. **Supervised Machine Learning: Regression and Classification** authorized by DeepLearning.AI and Stanford University, offered through Coursera.

## VOLUNTEER EXPERIENCE

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1. Peer-reviewed articles in CVIP 2024–2025 and CoDS 2024 conferences.
2. Worked as a Volunteer in **International Conference on Computations and Data Science (CoDS-2024)**, Organized by Department of Mathematics jointly with iHUB DivyaSam-park, IIT Roorkee, March 08-10, 2024.
3. Worked as **National Service Scheme (NSS) Volunteer** for 2 years (2016 - 2018).

## DECLARATION

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I hereby state that all the information mentioned above is true to the best of my knowledge and I shall be held responsible for any discrepancy found later.

**Date:** July 1, 2025

**Place:** Roorkee, Uttrakhand.

**Srishti Yadav**

## REFERENCES

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Prof. R. Balasubramanian

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Prof. Sanjeev Kumar

Professor, Department of Mathematics, Indian Institute of Technology, Roorkee, India.

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