

# Rishabh Shukla

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## Career Objective

A highly motivated Ph.D. candidate specializing in Computer Science and Engineering, with a passion for research in Biometrics and Image Processing. Seeking opportunity to apply theoretical knowledge in practical research projects and contribute to advancements in the field.

## Education

<b>Pursuing</b> <i>Indian Institute of Technology, Jammu</i>	<b>7.0</b> <i>PhD (CSE)</i>
<b>2019–2021</b> <i>National Institute of Technology, Puducherry</i>	<b>8.0</b> <i>M.Tech. (CSE)</i>
<b>2019</b> <i>Graduate Aptitude Test in Engineering</i>	<b>89 percentile</b> <i>CS AND IT</i>
<b>2015–2019</b> <i>Dr. A.P.J. Abdul Kalam Technical University</i>	<b>74.44%</b> <i>B.Tech. (CSE)</i>

## Work Experience

<b>OCT 2024 – APRIL 2025</b> <i>Norwegian University of Science and Technology</i>	<i>Visiting Scholar</i>
<b>Dec 2021 – Jan 2022</b> <i>Indian Institute of Technology Kanpur</i>	<i>JRF</i>
<b>Sep 2021 – Dec 2021</b> <i>IMS Engineering College</i>	<i>Assistant Professor</i>
<b>Feb 2019 – May 2019</b> <i>Hypex technology</i>	<i>Internship</i>

## Publications

- Analyzing Face Image Inpainting with Attribute-Driven Generative Network**  
2025 International Joint Conference on Neural Networks.
- Parallel Prints: Generating Realistic Cancelable Fingerprint Templates**  
IEEE/CVF Winter Conference on Applications of Computer Vision Workshop 2025 (WACVW)
- Bridging the Gap: Creating Authentic Biometric Templates for Secure Authentication Systems**  
IEEE International Conference on Systems, Man, and Cybernetics IEEE (SMC) 2024
- Vikriti-ID: A Novel Approach For Real Looking Fingerprint Data-set Generation**  
IEEE/CVF Winter Conference on Applications of Computer Vision 2024 (WACV)

5. **Secure and Privacy Preserving Proxy Biometrics Identities**  
International Conference on Advanced Information Networking and Applications (AINA-2023)
6. **Fingerprint digital twin for secure and privacy preserving biometric authentication**  
IEEE International Conference on Systems, Man, and Cybernetics 2023 (SMC)
7. **Deep learning based cancelable biometric system**  
Accepted in 14th International Conference on Computing, Communication and Networking Technologies 2023 (ICCCNT)
8. **An Experimental Study on Random Projection Based Biometric Security**  
2023 IEEE International Conference on Big Data (BigData)
9. **Optical coherence tomography classification through Deep Learning**  
2022 IEEE Global Conference on Computing, Power and Communication Technologies
10. **Rural Electrification Using Computer Vision and Wireless Sensor Networks**  
2022 International Conference on Intelligent Technologies (CONIT)

## Project Work

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1. **Proxy Fingerprint for Metaverse Application:** Developed various types of proxy fingerprints combined with user-specific keys for revocability and cancelability.
2. **Synthetic Biometric Generation:** Developed a generative model architecture for generating biometric data.
3. **Image Inpainting:** Developed a convolution model for image inpainting, solving deformed fingerprint restoration problem.
4. **A GAN Based Pipeline for Short Video Inpainting:** Proposed a SinGAN based pipeline for short video inpainting tasks, requiring only a single image frame for training.
5. **Convolution-Based Image Outpainting:** Solved the problem of image outpainting using convolution models.

## Awards, Grants and Fellowship

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**Doctoral Consortium Award:** International Joint Conference on Neural Networks 2025

**Doctoral Consortium Travel Grant:** IEEE conference series on Automatic Face and Gesture Recognition 2024

**Outstanding Participation Award:** 2024 Winter School On Biometrics

**IEEE SMC 2023 Travel grant:** SMC23 at Hawaii, USA

**IIT Jammu Institute Grant:** IIT JAMMU, INDIA

**IEEE Travel Grant Winner:** 2024 Winter School on Biometrics

**IIT Jammu Institute fellowship:** IIT JAMMU, INDIA

## Professional Service

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**Reviewer:** IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)-2025

**Out Standing Reviewer:** IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)-2025

**Reviewer:** International Conference on Pattern Recognition (ICPR)-2024

**Out Standing Reviewer:** British Machine Vision Conference (BMVC)-2024

**Reviewer:** IEEE International Conference on Systems, Man, and Cybernetics IEEE (SMC) 2024

**Reviewer:** International Conference on Computer Vision & Image Processing (CVIP)-2023

## Area of Interest

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- Computer Vision
- Biometrics
- Image Processing

## Software Skill Set

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**Languages:** Python, C, PHP, HTML5, CSS3

**Databases:** MySQL, SQLite

**Operating System:** Windows, Ubuntu

## Date

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2025-09-25  
Rishabh Shukla