

## Harshit Gupta

PhD Research Scholar (Senior Research Fellow)

Linkedin: <https://www.linkedin.com/in/harshitgupta24/>

(Member of IEEE)



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### Current Position

Presently, working as a Ph.D. Research Scholar in the Department of Information Technology at Indian Institute of Information Technology Allahabad (IIITA). The research work is based on distributed machine learning by preserving the privacy of confidential and important data. The research orientation includes Internet of Thing, Industry 4.0, Digital Twin and Cloud Computing.

### Publications

1. FedGrid: A Secure Framework with Federated Learning for Energy Optimization in the Smart Grid in “Energies, 2023 (MDPI)”. **[Published]**
2. Empirical Analysis of Federated Learning Algorithms: A Federated Research Infrastructure Use Case in “13th International Conference on Cloud Computing and Services Science (CLOSER)” **[Published]**
3. Fed-Trace: An Efficient Model to Traceback Data Poisoning Attacks in Federated Learning in 56th Annual International Carnahan Conference on Security Technology (ICCST 2023) **[Best Paper Award] [Accepted & Presented]**
4. Commissioning Federated Reinforcement Learning to Envision Network Security Strategies in “20th India Council International Conference (INDICON) – 2023”. **[Accepted & Presented]**
5. Biometric Iris Identifier Recognition with Privacy Preserving Phenomenon: A Federated Learning Approach in “Neural Information Processing: 29th International Conference, ICONIP 2022” **[Published]**
6. Risk Prediction in the Life Insurance Industry Using Federated Learning Approach in “IEEE Mediterranean Electrotechnical Conference (MELECON)” **[Published]**
7. Optimizing Federated Learning in Statistical Heterogeneity: a Fire Detection Use Case in 2nd International IEEE Applied Sensing Conference (APSCON 2024) **[Accepted]**
8. Lane Detection for Autonomous Vehicle in Hazy Environment with Optimized Deep Learning Techniques in “International Conference of Advanced Network Technologies and Intelligent Computing”. **[Published]**
9. Classification of Indoor-Outdoor Scene Using Deep Learning Techniques in “International conference on Machine Learning, Image Processing, Network security and Data Science” (Accepted & Presented) **[Published]**
10. Anomaly Classification to Enable Self-Healing in Cyber Physical Systems using Process Mining in 17th Learning and Intelligent Optimization conference (LION 2017) **[Published]**

## Membership & Participation

1. Member at Institute of Electrical and Electronics Engineers (IEEE).
2. Organizing Committee Member of 05 Days Faculty Development Program (FDP) on “*Cyber Physical Security for Critical Infrastructure*” sponsored by *AICTE Training and Learning (ATAL) Academy* in August’2021.
3. Organizing Committee Member of 05 Days Short Term Program on “*Advances in Business Informatics*” organized at *Indian Institute of Information Technology Allahabad* in October’ 2021.
4. Organizing Committee Member of 03 Days Short Term Course on “*Advances in Data Analytics*” organized at *Indian Institute of Information Technology Allahabad* in December’ 2021.
5. Attended 02 Days workshop on “Thin Film Technologies for Sensors and Optoelectronic Applications” organized by Department of Electronics and Communication Engineering of Indian Institute of Information Technology Allahabad.

## Academic & Professional Achievements

1. Reviewer at International Workshop on Environment and Geoscience (IWEG 2022).
2. Reviewer Board Member at Medicon Open Access : An international Scientific Publication Group
3. Reviewer Member at Elsevier (Information Sciences)
4. Qualified Graduate Aptitude Test for Engineering (GATE) in year 2020.
5. Qualified National Eligibility Test (NET) in November-2017, June-2019
6. Qualified NET & JRF (Junior Research Fellow) in December 2019.

## Academic Qualifications

Examination/Degree	Board/University	Year	Percentage
Ph.D.	IIIT Allahabad	2020-	Perusing
M. Tech [SE]	MUIT Lucknow	2016 - 2018	75.34%
B.Tech. [CSE]	UPTU	2012 - 2016	75.74%
12 <sup>th</sup>	CBSE	2011	70.17%
10 <sup>th</sup>	CBSE	2009	83.00%

## Technical Capabilities

Programming Languages	C, C++, JAVA, Python
Web Development	PHP,HTML,CSS,MYSQL
Machine Learning Platforms & Frameworks	TensorFlow, TensorFlow Federated, Flower Framework
Data Analytical Tools	SPSS Statistics

## Personal Details

Name (Gender)	Harshit Gupta (Male)
Father’s & Mother’s Name	Mr. V. K. Gupta & Mrs. Neelam Jaiswal
Year of Birth	1993

Nationality

Indian

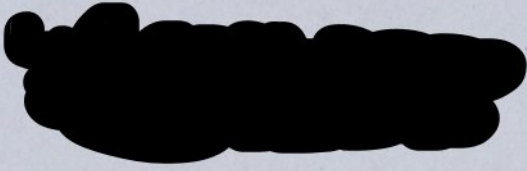

Languages Known

Hindi, English (Read, Write, Speak)

Strength

Desire to Perform

I hereby declare that the above information is true to the best of my knowledge.

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**(Harshit Gupta)**



INDIAN INSTITUTE OF INFORMATION TECHNOLOGY – ALLAHABAD,  
PRAYAGRAJ, INDIA - 211015

OSA<sup>®</sup>  
The Optical Society

2-Days Online Workshop on  
“Thin Film Technologies for Sensors and Opto-electronic Applications”

TFTW'21/ECE/IIITA/P51

**CERTIFICATE OF PARTICIPATION**

This is to certify that

**Mr. Harshit Gupta**

has attended the **2-Days Online Workshop on**

“**Thin Film Technologies for Sensors and Opto-electronic Applications**” organised by Department of  
Electronics and Communication Engineering in association with **OSA IIITA Student Chapter** from 17-18<sup>th</sup>

July 2021, at **Indian Institute of Information Technology, Allahabad, Prayagraj, India.**

**Dr. Sunny**  
(Workshop Convener)

**HOD (ECE)**

**Dean (A&R)**



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# Membership Certificate

The Board of JETIR Grants that

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is an active review member

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Information Sciences

# Certificate of Reviewing

Awarded for 4 reviews between June 2023 and August 2023  
presented to

**HARSHIT GUPTA**

in recognition of the review contributed to the journal

The Editors of Information Sciences



CPSCI - 2021



Indian Institute of Information Technology, Allahabad  
Department of Information Technology



Faculty Development Program on  
Cyber Physical Security for Critical Infrastructure

**Certificate of Recognition**

This certificate is presented to Mr. Harshit Gupta from *Indian Institute of Information Technology Allahabad* in appreciation of esteemed support as Organizing Committee Member for **five Days FDP** from 2<sup>nd</sup> to 6<sup>th</sup> August 2021 sponsored by AICTE Training and Learning(ATAL) Academy.

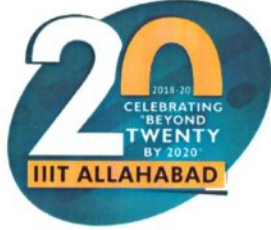
प्रज्ञानम् ब्रह्म

Prof. P. Nagabhushan  
Director

Prof. O.P. Vyas  
Coordinator

# Indian Institute of Information Technology, Allahabad

Department of Information Technology



Organizes

## Five Days Short Term Course on Advances in Business Informatics Certificate of Recognition



This certificate is presented to Mr. Harshit Gupta from *Indian Institute of Information Technology Allahabad* in appreciation of esteemed support as Organizing Committee Member for **Five Days Short Term Course** from 9<sup>th</sup> to 13<sup>th</sup> October 2021.

Prof. P. Nagabhushan  
Director

Prof. O.P. Vyas  
Coordinator