



# Netaji Subhas University of Technology (NSUT), East Campus, Delhi

International Conference on  
Applications of Artificial Intelligence in Computational Information and Communication Technologies  
(ICAAI - 2025)  
13<sup>th</sup>-14<sup>th</sup> November, 2025



**All the paper presenter and attendee are requested to report at venue 9 am sharp for registration and registration time is 9am to 10 am.**

## INAUGURAL CEREMONY

Date: 13<sup>th</sup> November, 2025

Duration: 10 AM – 11:30 AM

Venue: Mini Auditorium, NSUT East Campus, Delhi-31

Keynote Speaker-1: Prof. B.V. Ramana Reddy, Director, NIT Kurukshetra (10:30 AM – 10:45 AM)

Keynote Speaker-2: Mr. Nitish Kumar, Founder Director, CampusX, Gurugram (10:45 AM – 11:30 AM)

Live Streaming Link: <https://www.youtube.com/@nsutdelhi>

***High Tea & Interaction: 11:30 AM – 12:30 PM***

## PAPER PRESENTATION SCHEDULE

**DAY-1 (13<sup>th</sup> November, 2025) THURSDAY**

**Technical Sessions (I-IV)**

Keynote Session

Venue: Mini Auditorium

Time: 12:30 PM to 1:30 PM

Session Manager: Harshil Bhatia (9599140890), Ayush Jha (7903989190), Abhishek Chakarborty (9981190816) Akshay (8595681471), Ananaya (9971798433)

Keynote Speaker-1: Prof. Dharmender Kumar, Chairperson Department of AI & Data Science, GJU Hisar (12:30 PM – 1 PM)

Keynote Speaker-2: Prof. Harish Rohil, Chairperson & Dean Faculty of Science & Engineering, CDLU Sirsa (1 PM – 1:30 PM)

Online Meeting link:- <https://meet.google.com/nxp-zxir-naq>



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## International Conference on Applications of Artificial Intelligence in Computational Information and Communication Technologies (ICAAI - 2025) 13<sup>th</sup>-14<sup>th</sup> November, 2025



Technical Papers: Session-I

Venue: H202

Time: 12:30 PM to 1:30 PM

### Technical Session Chairpersons:

- Prof. Shailender Kumar, DTU Delhi
- Prof. Vinod Kumar, HOD (Physics), NSUT Delhi
- Dr. Aarti Jain, Assistant Prof (ECE) NSUT EAST CAMPUS Delhi

Session Management: Ms. Sanjana (09897307109) & Ms. Kirti Sharma (07678631241)

Online Meeting Link: <https://meet.google.com/tuv-qauu-gqe>

S. No.	PI D	Title	Authors	Time of Presentation	Mode of Presentation
1	75	Improving Information Retrieval through SBERT-Based Query Expansion	Hemendra Shanker Sharma	12:30 PM-12:40 PM	Online
2	130	A Study on Cryptographic Performance: Traditional Versus ML-Based Techniques	Abhishek	12:50 PM-1:00 PM	Offline
3	149	Integrating Feature Selection and Parameter Tuning in a Hybrid Machine Learning Model for Diabetes Prediction	Lakshay Dahiya	1:00 PM-1:10 PM	Offline
4	171	Robust and efficient machine learning with random forest : A case study on ranchi city	Shashank Pushkar, Bablu Kumar, Indrajit Mukherjee	1:10 PM-1:20 PM	Offline



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**Technical Papers: Session-II**

**Venue: H203**

**Time: 12:30 PM to 1:30 PM**

**Technical Session Chairpersons:**

- Dr. Rajkumar Yadav, MDU Rohtak
- Prof. Rajveer Yaduvanshi, NSUT Delhi
- Dr. Garima Srivastav Assistant Prof. NSUT EAST CAMPUS Delhi

**Session Management:** Ms. Shajal Afaq (8318627162) & Mr. Mukesh Kumar (8076479814)

**Online Meeting Link:** <https://meet.google.com/ohm-gmox-pog>

S. No.	PI D	Title	Authors	Time of Presentation	Mode of Presentation
5	236	Stroke Prediction Using Quantum Machine Learning: A Comparative Study of QSVM and QNN with Diverse Encoding Schemes	Ajay Kumar, Jashan Khandelwal, Krish Sharma, Ajay Kumar, Sunita Garhwal	12:30 PM-12:40 PM	Online
6	240	Intelligence for Emotion Detection: A Machine and Deep Learning-Based Approach to Textual Data	Harihar Nath Verma, Sanjay Kumar Malik	12:40 PM-12:50 PM	Offline
7	140	Text-based Yoga Asana Prediction using a Novel Mixed Feature Extraction Technique	Monika Singh, S. Indu & N. Jayanthi	12:50 PM-1:00 PM	Offline
8	60	AetherWall – A Next-Generation Cybersecurity Framework for Proactive DDoS Mitigation Using Adaptive Machine Learning and Real-Time Visualization,	Ritik Raj, Dr. Soumi Ghosh	1:00 PM-1:10 PM	Online
9	104	Query2Book: A Hybrid RAG-based Conversational Book Recommendation Agent for Interactive Book Discovery	Naresh Kannaa S, Dr. Akshay Mudgal, Dr. Sakshi Kathuria	1:10 PM-1:20 PM	Online

**Lunch Break: 1:30 PM – 2:30 PM**

**Keynote Session**

**Venue: Mini Auditorium**

**Time: 3:00 PM to 3:30 PM**

**Session Manager:** Harshil Bhatia (9599140890), Ayush Jha (7903989190), Abhishek Chakarborty (9981190816), Akshay (8595681471), Ananaya (9971798433)



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**Keynote Speaker-1:** Prof. D.K Lobiyal, JNU Delhi (3PM -3:30 PM)

**Online Meeting Link:** <https://meet.google.com/oib-jdza-znj>

**Technical Papers: Session-III**

**Venue: H202**

**Time: 3 PM to 4 PM**

### Technical Session Chairperson:

- Dr. Sanjay Kumar Anand, Head Cybrom Technology, Bhopal
- Dr. Sanjeev Kumar, Assistant Professor, NSUT Delhi
- Dr. Vishal Gupta, Associate Prof. NSUT EAST CAMPUS, Delhi

**Session Management:** Mr. Rakesh Kumar (8076475043) & Ms. Madneeta Singh (9870708147)

**Online Meeting Link:** <https://meet.google.com/iwb-quesa-gru>

S. No.	PI D	Title	Authors	Time of Presentation	Mode of Presentation
10	106	Responsible AI: Ethical Issues in Text-to-Image Diffusion Models	Shiv Veer Singh	3:00 PM-3:10 PM	Online
11	121	A Data-Driven Approach to Malware Classification and Detection Using Supervised Learnings Models	Tanishka Pandey, Himani Tyagi	3:10 PM-3:20 PM	Online
12	162	Mitigating Vulnerabilities in Medical Record Data Through a Blockchain-Based Secure Architecture	Shashank Saroop, Rajesh Kumar Tyagi, Rahul Kumar	3:20 PM-3:30 PM	Online
13	168	Enhanced Android Malware Detection using XGBoost Optimized by Whale Optimization Algorithm	Dr. Pawan Kumar	3:30 PM-3:40 PM	Online
14	170	Sentiment Analysis through Machine Learning across Social Media Platforms: Approaches and Hybrid Model Evaluation	Kritika Kumari, Sumesh Sood	3:40 PM-3:50 PM	Online



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**Technical Papers: Session-IV**

**Venue: H203**

**Time: 3 PM to 4 PM**

**Technical Session Chairpersons:**

- Prof. Sanjay Malik, GGSIPU Delhi
- Prof. Gopal, MDU Rohtak
- Dr. Amita Jain, Assistant Professor, NSUT Delhi



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## International Conference on Applications of Artificial Intelligence in Computational Information and Communication Technologies (ICAAI - 2025)

13<sup>th</sup>-14<sup>th</sup> November, 2025

**Session Management:** Ms. Anushka Shihhare (7007406942) & Ms. Ananya (9971798433)

**Online Meeting Link:** <https://meet.google.com/vto-tsufu-iro>

S. No.	PI D	Title	Authors	Time of Presentation	Mode of Presentation
15	187	Impact of Wavelength Dependence of Responsivity on SLIPT based Hybrid OWC/RF	Rahul Modanwal, Prof. Soven K. Dana	3:00 PM-3:10 PM	Online
16	208	Performance Analysis and Optimization of Continuous Sign Language Recognition Using an Iterative Deep Neural Learning Framework	Laxmi Kashyap, Dr Neeta Verma, Dr. Anjali Singhal	3:10 PM-3:20 PM	Online
17	209	Automated Currency Detection and Recognition for Malaysian Banknotes Using YOLOv8 Variants on Imbalanced Datasets	Jyoti Negi, Sumesh Sood	3:20 PM-3:30 PM	Online
18	210	Smart Adaptive Headlight System	Litty Koshy	3:30 PM-3:40 PM	Online

**Technical Poster: Session-I**

**Venue: H203**

**Time: 3 PM to 4 PM**

### Technical Session Chairpersons:

- Prof. Sanjay Malik, GGSIPU Delhi
- Dr. Amita Jain, Assistant Professor, NSUT Delhi
- Dr. Bharti Nagpal, Assistant Professor, NSUT Delhi



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## Poster Presentation

01	01	Reconfigurable Fluid Antenna Using Pumping Mechanism	Sandeep Kumar, Prof. (Dr.) Sanjay Kumar Chak, Prof. (Dr.) Rajveer Singh Yaduvanshi	3:40 PM-3:50 PM	Offline (poster presentation)
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**DAY-2 (14<sup>th</sup> November, 2025), FRIDAY**

## **Technical Sessions (V-VI)**

**Keynote Session**

**Venue: Online Session**

**Time: 11 AM to 12 Noon**



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Session Manager: Harshil Bhatia (9599140890), Ayush Jha (7903989190), Abhishek Chakraborty (9981190816), Akshay (8595681471), Ananaya (9971798433)

Keynote Speaker-1: Mr. Praveen Kumar Pal, Nokia, America Corp, USA (10:30AM- 11AM (IST))

Keynote Speaker-2: Mr. Ravi Jindal, AI/ML Engineer & Privacy Technology Expert, DocuSign, USA (11 AM-11:30 AM (IST))

Keynote Speaker-3: Mr. Naveen Kumar Pedada, Cognizant Technology Solution, USA (11:30 AM-12 Noon (IST))

Online Meeting Link: <https://meet.google.com/aue-srrp-irj>

Technical Papers: Session-V

Venue: H202

Time: 11 AM to 12 Noon

### Technical Session Chairpersons:

- Dr Anil Kumar, Associate Professor, Galgotia University, Greater Noida
- Dr. Pankaj Lathar, Associate Professor, DSEU Delhi
- Dr. Sobha Bhatt , Assistant Professor , NSUT EAST CAMPUS Delhi
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Session Management: Ms. Shajal Afaq (8318627162) & Mr. Mukesh Kumar (8076479814)



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Online Meeting Link: <https://meet.google.com/efo-aqcr-dqq>

S. No.	PI D	Title	Authors	Time of Presentation	Mode of Presentation
19	214	A Deep Learning-Based Framework for Emotion Prediction from Multimodal Social Media Data: A Comparative Study of Text, Image, and Emoji Signals	Shivam kaushik , Dr. Charu Gandhi	11:00 AM-11:10 AM	Online
20	217	The adoption of data warehouse in higher education for better performance and management system.	Vishnu, Dr. Mahima	11:10 AM-11:20 AM	Online
21	222	Analysis of Link Outage for Satellite-HAPS FSO Channel Using Machine Learning	Jitender Kumar, Soven K. Dana	11:20 AM-11:30 AM	Online
22	228	A Comparative Analysis of Image Segmentation Using Classical Approach in Medical Imaging	Ravi Yadav	11:30 AM-11:40 AM	Online
23	229	Resource Allocation Mechanisms in Cloud Computing: Critical Review	Kavita Rani	11:40 AM-11:50 AM	Online
24	81	A computational Experiment for classification of mesocortical dopaminergic pathways based on human addiction patterns	Aryan, Aayush Mangla, Ankita Sarkar, Gaurang Khera, Mansi Jhamb	11:50 PM-12:00 PM	Online
02	02	Innovative Learning Models For Life long Skill Development The Role Of AR/VR in Education	Dr. Roshan LAL, Bhavya, Ayush, Saad Nadeem , Syed Ashhar Ali	12:00pm-12:10pm	offline

Technical Papers: Session-VI

Venue: H203

Time: 11 AM to 12 Noon

Technical Session Chairpersons:

- Dr. Pawan Kumar, Associate Professor, Galgotia University, Greater Noida
- Prog. Roshan Lal, Amity University
- Dr. Sanjay Anand

Session Management: Mr. Rakesh Kumar (8076475043) & Ms. Madneeta Singh (9870708147)



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Online Meeting Link: <https://meet.google.com/dyd-fgyn-kmt>

S. No.	PI D	Title	Authors	Time of Presentation	Mode of Presentation
25	235	RF-LToD: Random Forest based Low-Rate Flow Table Overflow Detection for SDN	Surjit Singh, Pradyuman Kumar Verma, Ajay Kumar	11:00 AM-11:10 AM	Online
26	237	Comparative Analysis of Deepfake Video and Audio Detection	Arushi Madaan, Tisya Pawar, Himanshu Khodlan, Dhruv Singh Chauhan, Sunita Garhwal1, and Karuna Kadian	11:10 AM-11:20 AM	Online
27	242	A Comparative Analysis of Machine Learning Predictive Models for Home Appliances Energy Consumption	Adwitiya Shukla	11:20 AM-11:30 AM	Online
28	89	A Review Paper on Journey from Human Learning-Machine Learning-Deep Learning in Plants Disease Detection for Improving Agricultural Productivity and Enhancing Economic Growth	Rajesh singh	11:30 AM-11:40 AM	Online
29	48	Title-Efficient Adaptation of Lightweight LLMs: T-Free Tokenization vs. STELLA Embeddings	Alpna Mishra, Raghav Kochhar , Achintye Kamra , Udit Rawat, Surabhi Rastogi	11:40 AM-11:50 AM	Online
30	212	Improving Multispectral Object Detection Through Transfer Learning Frameworks	Kandregula Greeshma	11:50AM-12:00AM	Online
03	03	A Comparative Analysis of XAI techniques for mitigating bias and hallucination in LLM- powered mental health support systems	Rohan Kumar, Rohit Kumar	12:00am-12:10am	offline

Keynote Session

Venue: Mini Auditorium

Time: 12:00PM-1 PM

Session Manager: Harshil Bhatia (9599140890), Ayush Jha (7903989190), Abhishek Chakraborty (9981190816), Akshay (8595681471), Ananaya (9971798433)

Keynote Speaker-1: Prof. Rajiv Kapoor, DTU Delhi (12:00 PM – 12:30 PM)

Keynote Speaker-2: Dr. Vijeta Gautam, Associate Professor, CCS Meerut University (12:30 PM – 1 PM)

Keynote Speaker-3: Ms. Kamiya Khatter, Senior Editor at Springer Nature Group (1:00pm – 1:30pm)



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Online Meeting Link: <https://meet.google.com/ayd-jmvb-pyy>

**Lunch Break: 1:30 PM-2:30 PM**

**Valedictory Session**

**Venue: Mini Auditorium**

**Time: 2:30 PM**