



Madhav Institute of Technology and Science, Gwalior

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

Near Gola Ka Mandir, Gwalior-474012; www.mitsgwalior.in

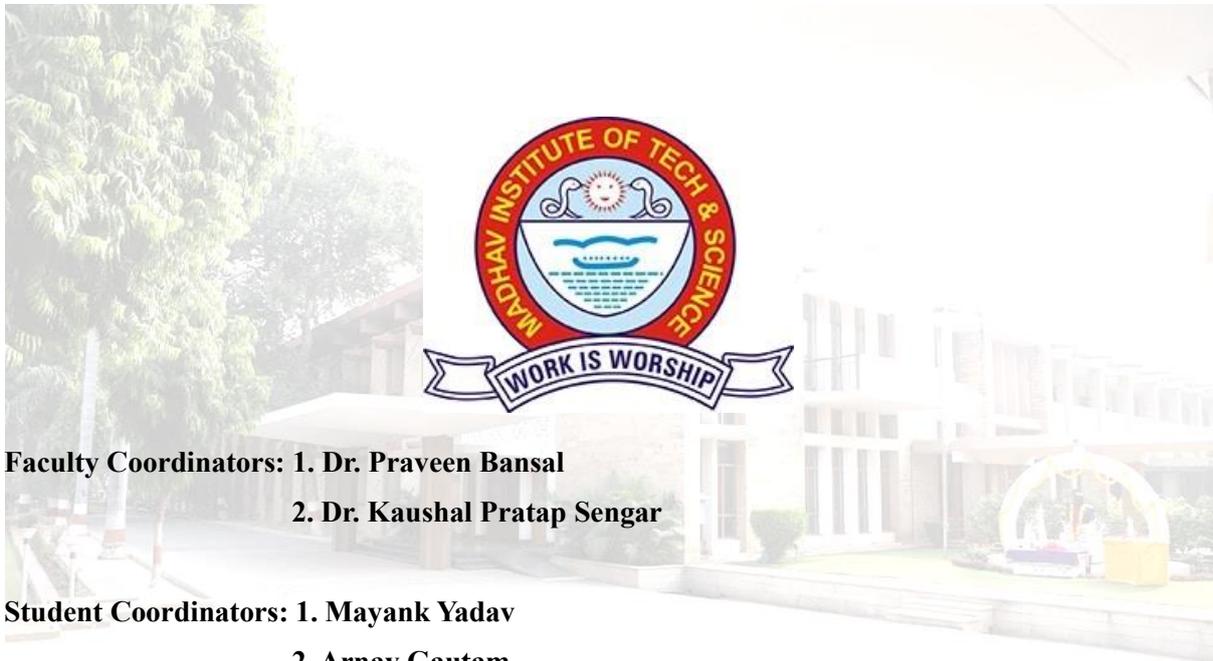
A Report

On

National Level Online Poster Presentation

Visualizing Connectivity: IoT Poster Expo 2024

(Hybrid Mode)



Faculty Coordinators: 1. Dr. Praveen Bansal

2. Dr. Kaushal Pratap Sengar

Student Coordinators: 1. Mayank Yadav

2. Arnav Gautam

3. Tanvi Shrivastava

4. Shivam Sharma

5. Harshit dwivedi

6. Raj Kamal

10th February, 2024

CENTRE FOR INTERNET OF THINGS



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Dr. Praveen Bansal
Coordinator

Dr. Kaushal Pratap Sengar
Coordinator



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1. Background

The Centre for Internet of Things Conducted a National Level Online Poster Presentation: Visualizing Connectivity: IoT Poster Expo on 10th February 2024 (Saturday) in hybrid mode. The event was conducted especially for researchers in order to give them a stage for presenting their research work in different spheres of Internet of Things.

2. Objective

The event promises to provide researchers an incredible platform for showcasing innovative ideas and creative research to a wide audience. The main aim of the event was to bring together the brightest minds from across the nation to share their unique perspectives and visionary concepts of Internet of Things.

3. Details of the Event

The event took place in three sessions Each session was chaired by 2 experts. Session 1 and Session 2 were conducted in online mode and session 3 was conducted offline mode from 11:00am to 1:00pm. A total of 23 participants presented their research in offline and online mode.

The event started at around 11:00 am with the welcoming of participants and panel of Judges. The participants' presentation began immediately after the welcoming of guests. The rules of presentation are decided as follows:

- All the participants will present as individuals or with their group members.
- Participant will complete his presentation within 10 minutes. 8 minutes for presentation and 2 minutes for Q&A session.
- Use of inappropriate language and exceeding the time limit would lead to negative marking or even disqualification.

The evaluation criteria of poster presentation were as follows:

- Research Details
- Knowledge about the work
- Applications of Ideas
- Concept Clarity
- Presentation

The last participant's presentation concluded by 1:00pm. After the presentation by the participants was over, faculty members present shared their enlightening words. The event "National Level Online Poster Presentation: Visualizing Connectivity: IoT Poster Expo" ended with vote of thanks by the anchors of the events.

4. Outcomes



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- **Diverse Participation:** The diverse backgrounds of the participants contributed to a rich tapestry of ideas and perspectives on the theme of visualizing connectivity through Internet of Things.
- **Innovative IoT Solutions:** The competition showcased a plethora of innovative IoT solutions through visually appealing and informative posters.
- **Expert Jury Evaluation:** A panel of esteemed judges with expertise in IoT, design, and related fields carefully evaluated the posters. Their insightful feedback not only acknowledged the hard work and creativity of the participants but also provided constructive criticism, fostering a culture of continuous improvement and learning.
- **Networking and Collaboration:** The event served as a platform for networking and collaboration, fostering connections among participants, industry experts, and academia
- **Knowledge Dissemination:** The expo facilitated the dissemination of knowledge and advancements in IoT connectivity. This knowledge dissemination contributes to the overall growth of the IoT community and its impact on various sectors.
- **Inspiration and Innovation:** The expo inspired participants to think creatively and innovatively about the possibilities offered by IoT technology. By seeing the work of their peers and engaging with novel ideas, participants were motivated to push the boundaries of IoT research and explore new avenues for application development.
- **Recognition and Awards:** Outstanding posters and presentations were recognized and awarded, motivating participants to strive for excellence and innovation in their work. This recognition not only honored the achievements of individuals and teams but also served as an incentive for continued dedication to IoT research and development.

Overall, the National Level Online Poster Presentation "Visualizing Connectivity: IoT Poster Expo 2024" contributed to advancing knowledge, fostering collaboration, raising awareness, inspiring innovation, and recognizing excellence in the field of IoT technology and connectivity.



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5. Promotional Poster

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A GOVT. AIDED UGC AUTONOMOUS INSTITUTE, AFFILIATED TO R.G.P.V. BHOPAL (M.P.), INDIA
NAAC ACCREDITED WITH A++ GRADE

**Centre for Internet of Things
organizes**

National Level Online Poster Presentation

On

VISUALIZING CONNECTIVITY : IoT Poster EXPO-2024

Date: 10.Feb.2024

**Hybrid
Mode**

About MITS

Madhav Institute of Technology & Science (MITS), Gwalior, M.P. was established in 1957 by His Highness Sir Jiwaji Rao Scindia, Maharaja, of the erstwhile state of Gwalior under open door policy of Govt. of India. The foundation stone of the institute was laid by the then President Dr. Rajendra Prasad, on 20th October, 1956 and the building was inaugurated by President Dr. S. Radhakrishnan on 11th December, 1964. The institute is affiliated to R.G.P.V., Bhopal but has academic autonomy since 2002 to run courses of its choice. Recently the institute has been granted autonomy by UGC, New Delhi for a period of 6 years w.e.f July 2017. The institute is also accredited by the National Assessment and Accreditation Council (NAAC) with A++ Grade for 5 years from 2023. Many of the programmes are accredited by the National Board of Accreditation (NBA).

Topics for posters

IoT based Speech Recognition	Emerging Technologies (5G, Blockchain)	IoT Ecosystem Overview
Data Analytics and Processing	Connectivity Protocols	Agricultural IoT
ML Integration in IoT	Security and Privacy	IoT in Industry (IIoT)
AI Integration in IoT	Sensors and Actuators	IoT in Retail
Smart Cities and Infrastructure	Natural Language Processing in IoT Devices	Healthcare IoT
5G and Next Generation Networks	IoT Big Data Analytics	IoT based Energy Management

Perks and Awards

- E-Certificates to all participants
- Top Three posters will be awarded badges of 1st, 2nd and 3rd

More Information

- Maximum students allowed in one group: 02
- There is no Registration Fee
- Last date to Register: 03.02.2024

Registration

[Click Here/Scan](#)

Faculty Coordinators

Dr.Praveen Bansal
Dr. Kaushal Pratap Sengar

Download Poster Template:: [Click Here](#)

For More Details contact: **Mayank Yadav - 6232 952 033**
Arnav Goutam - 9630589025



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6. Participants Details & Sessions:



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National Level Online Poster Presentation
On
VISUALIZING CONNECTIVITY: IoT Poster EXPO-2024
Date: **10.Feb.2024**

Session 1 : Time: 11.30AM to 01.00PM

Session Chairs:
Dr. Vishal Chaudhary, Assistant Professor, Electrical Department
Dr. Gaurav Khare, Assistant Professor, Centre for IoT

Google Meet Link : <https://meet.google.com/kjx-kgxz-ggu>

Paper ID	Title of the Poster
2k24PloT102	Deepfake Detection Using Inceptionresnev2-Bilstm <i>Author: Jayshree, Shiv Nadar University, Chennai, Tamil Nadu</i>
2k24PloT103	IoT In Healthcare <i>Author: Riya Pravin Patil And Mishra Rupam Rajendra Narmiet, Shahapur, Thane, Maharashtra</i>
2k24PloT104	An Overview Of Iot Revolutionizing The Retail Sector, <i>Author: Muthu Vigneshwari Ammayappan And Riya Rajendra Mishra, ARMIET, Shahapur, Maharashtra</i>
2k24PloT105	Smart Cities And Infrastructure <i>Author: Divya Parihar, MITS Gwalior</i>
2k24PloT106	Enhancing Diabetes Management "A Machine Learning Enabled IoT Framework For Early Detection" <i>Author: Deepansh Kulshrestha, MITS Gwalior</i>
2k24PloT121	Redefining Healthcare With IoT <i>Author: Aman Bhat, Shiv Nadar University Chennai, Tamil Nadu</i>
2k24PloT135	Towards Intelligent Iot - A Machine Learning Perspective, <i>Author: Rathish Manivannan, Shiv Nadar University, Chennai, Tamil Nadu.</i>
2k24PloT129	Smart Cities and Infrastructure <i>Author: Vignesh G And Pranaveshwaran M.K Dhaanish Ahmed College Of Engineering, Chennai, Tamil Nadu.</i>



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National Level Online Poster Presentation
On
VISUALIZING CONNECTIVITY: IoT Poster EXPO-2024
Date: 10.Feb.2024

Session 2 : Time: 11.30AM to 01.00PM

Session Chairs:
Dr. Yashwant Sawle, Assistant Professor, Centre for IoT
Dr. Murlī Manohar, Assistant Professor, Centre for IoT

Google Meet Link : <https://meet.google.com/ccj-dfzd-pqu>

Paper ID	Title of the Poster
2k24PloT107	Sensors and Actuators, <i>Author: Shashank Chandravanshi, M.I.T.S, Gwalior</i>
2k24PloT108	IoT Big Data Analytics, <i>Author: Siddharth Katare, M.I.T.S, Gwalior</i>
2k24PloT109	Emerging Technologies (5G, Blockchain), <i>Author: Subham Dhakad, M.I.T.S, Gwalior</i>
2k24PloT114	Smart Cities and Infrastructure, <i>Author: Priyanshu Kumar, M.I.T.S, Gwalior</i>
2k24PloT117	Smart Parking System, <i>Author: Akash Yadav, M.I.T.S, Gwalior</i>
2k24PloT119	Healthcare IoT, <i>Author: Astha Garg and Simmi Mittal, M.I.T.S, Gwalior</i>
2k24PloT122	Smart Cities and Infrastructure, <i>Author: Ayush Gupta, M.I.T.S, Gwalior</i>
2k24PloT126	Security and Privacy in IoT, <i>Author: Yuvraj Singh Chandel, M.I.T.S, Gwalior</i>

1/2

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2k24PloT127	Industry in IoT (IIoT) , <i>Author: Samiksha Garg, M.I.T.S, Gwalior</i>
2k24PloT130	Smart Cities and Infrastructure, <i>Author: Anushka Dhakad and Renu Batham M.I.T.S, Gwalior</i>
2k24PloT134	Agriculture using IoT, <i>Author: Sakshi Dubey, M.I.T.S, Gwalior</i>
2k24PloT138	Smart Cities and Infrastructure, <i>Author: Nancy Gupta and Rohit Kumar, M.I.T.S, Gwalior</i>



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National Level Online Poster Presentation

On

VISUALIZING CONNECTIVITY: IoT Poster EXPO-2024

Date: 10.Feb.2024

Session 3 : Time: 11.30AM to 01.00PM

Session Chairs:

Dr. Kaushal Pratap Sengar , Assistant Professor, Centre for IoT

Dr. Nookala Venu, Assistant Professor, Centre for IoT

Offline Mode

Paper ID	Title of the Poster
2k24PloT113	Smart Cities and Infrastructure, <i>Author: Anjali Bhadouria, M.I.T.S, Gwalior</i>
2k24PloT115	Doctor Appointment Booking System, <i>Author: Nivedita Sharma, M.I.T.S, Gwalior</i>
2k24PloT116	An Overview of IoT Smart Alcohol Detection and Engine Locking System, <i>Author: Sanskriti Yadav and Alok Sharma, M.I.T.S, Gwalior</i>
2k24PloT123	IoT in Agriculture, <i>Author: Rakhi Yadav, M.I.T.S, Gwalior</i>
2k24PloT124	From Seed to Farming: IoT Farming Journey, <i>Author: Keshav Singh Rathore, M.I.T.S, Gwalior</i>
2k24PloT125	Healthcare Monitoring with IoT, <i>Author: Subhrat Tripathi, M.I.T.S, Gwalior</i>
2k24PloT128	IoT Big Data Analytics, <i>Author: Harshit Tiwari and Avnish Jha, M.I.T.S, Gwalior</i>
2k24PloT133	Smart Cities and Infrastructure, <i>Author: Divyansh Jha and Riyu Shrivastav, M.I.T.S, Gwalior</i>
2k24PloT136	Secure the Web of Things: Navigating IoT Security Challenges, <i>Author: Yashika Gangil, M.I.T.S Gwalior</i>



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7. Winners

First Rank:

1. Rathish Manivannam and Sabesh Raj Saravanan, Paper ID: CIOt2k24PIoT135

Second Rank:

1. Jaishree, Paper ID: CIOt/2k24PIoT102
2. Divya Parihar Paper ID: CIOt/2k24PIoT105

Third Rank:

1. Nancy Gupta and Rohit Kumar Paper ID: CIOT/ 2k24PIoT138

9. Glimpses of the Event Day

The screenshot shows a Zoom meeting interface. The main window displays a poster presentation slide titled "Towards Intelligent IoT - A Machine Learning Perspective". The slide content is as follows:

National Level Poster Presentation on VISUALIZING CONNECTIVITY : IoT Poster EXPO-2024
February 10, 2024
Madhav Institute of Technology & Science, Gwalior, M.P.

Title: Towards Intelligent IoT - A Machine Learning Perspective
Rathish Manivannan, 2nd year B.Tech - CSE (IoT), Shiv Nadar University Chennai, T.N
Sabesh Raj Saravanan, 2nd year B.Tech - CSE (IoT), Shiv Nadar University Chennai, T.N

1. Introduction
IoT devices worldwide generate massive data, analyzed in real-time for predicting environmental trends. Management of this huge data is time-consuming, this is where machine learning is required. ML algorithms adapt, making them ideal for efficiently addressing complex issues in IoT environments.

2. Literature Review
Here are some machine learning algorithms suitable for implementation in IoT networks.
Support Vector Machines (SVM): Incorporating Support Vector Machines (SVM) into IoT networks facilitates the segregation of malicious traffic from normal traffic, preventing network congestion by blocking harmful activities[1].
Boosting Algorithms: Real Adaboost, Gentle Adaboost, and Modest Adaboost are applied effectively for intrusion detection in Computer networks. These Machine learning-based intrusion detection systems distinguish normal and abnormal behaviors to detect intrusions and contribute to providing advanced security to the IoT network and environment.

3. Methodology
The proposed system employed deep learning for reducing the malicious traffic in computer networks which therefore increases the efficiency of the network.

4. Results & Discussion
Data-driven decisions play a vital role in today's world. These decisions can be life-changing when it comes to healthcare. Using machine learning to train models based on data can be a real evolution towards IoT networks.

5. Conclusion
Machine learning can help demystify the hidden patterns in IoT data by analyzing massive volumes of data using sophisticated algorithms. Machine learning inference can supplement or replace manual processes with automated systems using statistically derived actions in critical processes.

References:
[1] S. P. Khedkar and R. AroulCanessane, "Machine Learning Model for classification of IoT Network Traffic," 2020 Fourth International Conference on i-SMAC (IoT in Social, Mobile, Analytics and Cloud) (i-SMAC), Palladam, India, 2020, pp. 166-170. doi: 10.1109/i-SMAC49090.2020.9243468.
[2] Internet of Things (IoT) Security Intelligence: A Comprehensive Overview, Machine Learning Solutions and Research Directions - Scientific Figure on ResearchGate.

The poster also includes two diagrams: Fig 1 Machine Learning in IoT and Fig 2 Process Flow Chart[2].

The Zoom meeting grid shows participants: Sabesh Raj (Presenting), Deepansh Kulshrestha, Vishal Chaudhary, Gaurav Khare, Divya Parihar, vigneshwari muthu, 5 others, and Mayank.



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Title: Smart City and Infrastructure
PRANAVESHWARAN M.K., 2nd year B TECH-AI&DS, Dhanish Ahmed college of Engineering, Chennai, Tamilnadu
VIGNESH G., 2nd year, B TECH-AI&DS, Dhanish Ahmed college of Engineering, Chennai, Tamilnadu

1. Introduction
Welcome to the era of Smart Cities and Infrastructure, where technological advancements reshape urban landscapes. As we delve into this poster, prepare to explore the fusion of innovation and urban living.

2. Literature Review:
1. IoT Integration:
- Navigate studies on IoT in smart cities..
2. Sustainable Development:
- Explore literature on smart tech and urban sustainability..
3. Urban Planning Innovations:
- Drive into works on innovative urban planning..
4. Citizen Engagement:
- Uncover insights into citizen involvement in smart cities..

3. Methodology
Dive into the strategies and approaches employed in transforming cities into intelligent hubs. Explore the intricacies of data analytics, connectivity, and urban planning that pave the way for smarter, more efficient infrastructure.

4. Results & Discussion
Observe tangible outcomes from smart city initiatives, leading to data-driven improvements in transportation, energy management, and public services.

5. Conclusion
As we wrap up, reflect on the journey through the real of smart cities and infrastructure. Consider the implications, challenges, and the promising future that lies ahead as we strive to create more connected, sustainable, and intelligent urban spaces.

Participants: Mass Vignesh, Sabesh Raaj, Gaurav Khare, Deepansh Kulshrestha, VISHAL CHAUDHARY, Divya Parihar, 5 others, Mayank.





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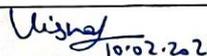


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Session Chair Remarks:

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National Level Online Poster Presentation On VISUALIZING CONNECTIVITY: IoT Poster EXPO-2024 Date: 10.Feb.2024	
Session 1 : Time: 11.30AM to 01.00PM	
Session Chairs: Dr. Vishal Chaudhary , Assistant Professor , Electrical Department Dr. Gaurav Khare, Assistant Professor, Centre for IoT	
Google Meet Link : https://meet.google.com/kjx-kgxz-ggu	
Paper ID	Remark
2k24PIoT102	Very Nice Presentation
2k24PIoT103	Application Based Presentation.
2k24PIoT104	Nice presentation.
2k24PIoT105	Average presentation.
2k24PIoT106	Nice Presentation.
2k24PIoT121	_____
2k24PIoT135	Nice Technique.
2k24PIoT129	Average Present ation.
 10.02.2024 Signature of Session Chairs [Vishal Chaudhary]	



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Date: 10.Feb.2024

Session 1 : Time: 11.30AM to 01.00PM

Session Chairs:
Dr. Vishal Chaudhary , Assistant Professor , Electrical Department
Dr. Gaurav Khare, Assistant Professor, Centre for IoT

Google Meet Link : <https://meet.google.com/kjx-kgxz-ggu>

Paper ID	Title of the Poster
2k24PloT102	Relevant work concerning the current situations. Need to improve the quality in low light conditions.
2k24PloT103	Lack innovations. Also, hardware implementation could have had improved the quality of work.
2k24PloT104	A clear module for implementation is missing
2k24PloT105	Nice work, with clear understanding of focus areas
2k24PloT106	Hardware implementation would improve the quality of work.
2k24PloT121	--
2k24PloT135	Need to implement a combination of multiple ML models, to improve the prediction quality.
2k24PloT129	Subquality paper

Session chair



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10. Summary of the Event

The National Level Online Poster Presentation titled "Visualizing Connectivity: IoT Poster Expo 2024" showcased a diverse array of posters highlighting the intersection of Internet of Things (IoT) technology and connectivity. Participants from across the nation presented their research, ideas, and innovations related to IoT and its impact on various aspects of life. The expo provided a platform for participants to visually represent their findings, insights, and projects through posters, allowing for easy comprehension and engagement by viewers. Topics covered in the presentation included IoT applications in healthcare, smart cities, agriculture, environmental monitoring, industrial automation, and more.

Overall, the National Level Online Poster Presentation served as a dynamic forum for exchanging ideas, fostering collaboration, and promoting awareness about the transformative power of IoT technology in shaping the future of connectivity.

