# Won 2ⁿᵈ Runner up in Group Dance Competition
## 23 November, 2024

Sneha Tripathi (229303169) and the Swarang team of Coreografia secured the Runner-Up position in the Group Dance Competition held at Rajasthan College of Engineering for Women on 23rd November. They were awarded a cash prize of ₹11,000, marking a significant achievement for the team.



# Won Silver Medal in Basketball, IIT Roorkee
## 10ᵗʰ-14ᵗʰ Oct 2024



Dev Taneja (Reg. No. 229303259), Ojas Khetarpal (Reg. No. 23FE10CII00003), Divij Pant (Reg. No. 229311274) and their team secured second position in basketball at Sangram, annual sports fest competition organised by IIT ROORKEE held from 10th October - 14th October.

# Silver Medal in Football, IIT Jodhpur
## 10ᵗʰ-14ᵗʰ Oct 2024

Ram Pathak (Reg. No. 229311172) and Ram Kaushik (Reg. No. 229311119) and their team were praised for football by everyone for giving head-to-head competition to the teams at VARCHAS, ANNUAL SPORTS FEST OF IIT JODHPUR, dated 10th-14th October.



# SIH Winner24
## 10th-12th Dec 2024



Amrisha Srivastava (Reg. No. 23FE10CII00196), a second-year student, and her team achieved a remarkable feat by winning the Software Edition of the Smart India Hackathon 2024, dated 10th to 12th December. This victory highlights the team's exceptional talent and problem-solving skills on a national platform and proud to Manipal University Jaipur.

---

### Desk of Director, SCIS



Dear students and colleagues, our pursuit of knowledge and innovation enriches the community and propels us forward. Being a part of Computing and Intelligent Systems, let's continue to collaborate, inspire, and drive positive change together.
Best Wishes
**Prof. V. S. Dhaka (Director), School of Computing and Intelligent Systems**
----------------------

### Desk of HoD, IoT & IS



Dear Friends, remember that every challenge is an opportunity to grow. Keep pushing your boundaries and embracing new knowledge. Your dedication is the key to unlocking endless possibilities. Wishing you continued success in all domains.
**Dr. Geeta Rani (HoD), IoT and Intelligent Systems**
----------------------

**Editor:**
Dr. Hemlata Goyal (Faculty)

**Dev Taneja-**
Sports Head (Student)

**Rhythm Taneja-**
Curricular Head (Student)

**Dhruv Jhadia-**
Publicity Head (Student)

# International Innovation Challenge 2024

**15–16 November 2024**

The International Innovation Challenge (IIC) 2024, hosted by School of Computing and Intelligent Systems, Manipal University Jaipur, is a prestigious 36-hour hackathon designed to promote global



collaboration and innovative problem-solving. This year's edition saw over 700 registrations on the Unstop platform, with 131 teams shortlisted for the offline event. The hackathon brought together more than 300 students from 30+ prominent institutions, including NTNU Norway, University of Calabria, IIT Kharagpur, Delhi Technological University, Thapar Institute of Engineering and Technology, and VIT Vellore, showcasing diverse talent from across India and the world



Dahmi Kalan, Rajasthan, India
Rhr7+xm7, Dahmi Kalan, Rajasthan 303007, India
Lat 26.842234° Long 75.564645°
15/11/24 10:46 PM GMT +05:30

# ProjectExpo24

**November 14, 2024**

Department of IoT & Intelligent Systems in Collaboration with E-Cell, Manipal University Jaipur organized ProjectExpo 2024. The ProjectExpo aims to provide students with a platform to showcase their



DEPARTMENT OF IOT & INTELLIGENT SYSTEMS
IN COLLABORATION WITH DIRECTORATE OF E-CELL
PROJECT EXPO 2024
IOT IN SMART SOLUTIONS
THEME
₹ 10000
PRIZE POOL
11:00 AM - 1:00 PM
14 NOVEMBER, 2024
AB1 GROUND FLOOR
CONTACT US:
DR.HEMLATA GOYAL 9351302652
AAGAAZ KAPOOR 8920030598



innovative ideas and projects, focusing on practical solutions and entrepreneurial ventures. The event encourages collaboration, creativity, and problem-solving through project-based learning lab. The students got a chance to showcase their developed projects in PBL Lab and win a PRIZE POOL OF 10000 INR.

# Societal Connect

**EMPOWERING YOUNG MINDS: EDUCATION FOR EVERY DREAM**



Jaipur, Rajasthan, India
N33, Gautam Marg, Rani Sati Nagar
Nirman Nagar, Rajasth Nagar, Jaipur
Rajasthan 302019, India
Lat 26.88N792° | Long 75.71N692°
302019
23/12/24 03:01 PM GMT +5:30



Department of IoT & Intelligent Systems along with Computer and Communication Engineering, in collaboration with the Directorate of Student Welfare (NSS), organized a heartfelt visit to the Aashray Care Home (Orphanage) under the theme "Empowering Young Minds: Education for Every Dream." This initiative aimed to foster a sense of social responsibility among MUJ students and provide them with an opportunity to connect with the orphanage children, offering companionship, engaging activities, and a strong sense of community.

| Oct-Dec 2024 | # IOT TODAY<br>Internship & Placement | Issue#4 |
|---|---|---|

School of Computing & Intelligent Systems Congratulates For getting selected at **ZS** — **TEJASV SETHI** B.Tech CSE (IoT & IS) Batch 2021 - 2025

School of Computing & Intelligent Systems Congratulates For getting selected at **ZS** — **SIDDARTH VATS** B.Tech CSE (IoT & IS) Batch 2021 - 2025

School of Computing & Intelligent Systems Congratulates For getting selected at **ORACLE** — **SHUBH MITTAL** B.Tech CSE (IoT & IS) Batch 2021 - 2025

School of Computing & Intelligent Systems Congratulates For getting selected at **JUNIPER** — **SHRIYA** B.Tech CSE (IoT & IS) Batch 2021 - 2025

School of Computing & Intelligent Systems Congratulates For getting selected at **ZS** — **ADEESHA SRIVASTAVA** B.Tech CSE (IoT & IS) Batch 2021 - 2025

School of Computing & Intelligent Systems Congratulates For getting selected at **Deloitte** — **SANDIPANEE** B.Tech CSE (IoT & IS) Batch 2021 - 2025

School of Computing & Intelligent Systems Congratulates For getting selected at **BlackRock** — **SAJAL JAIN** B.Tech CSE (IoT & IS) Batch 2021 - 2025

School of Computing & Intelligent Systems Congratulates For getting selected at **NOKIA** — **Priyanshu** B.Tech CSE (IoT & IS) Batch 2021 - 2025

School of Computing & Intelligent Systems Congratulates For getting selected at **accenture** — **PRIYA SINGH** B.Tech CSE (IoT & IS) Batch 2021 - 2025

School of Computing & Intelligent Systems Congratulates For getting selected at **Qualcomm** — **SANTHOSH TANAY** B.Tech CSE (IoT & IS) Batch 2021 - 2025

School of Computing & Intelligent Systems Congratulates For getting selected at **amazon** — **NUPUR MEHLAWAT** B.Tech CSE (IoT & IS) Batch 2021 - 2025

School of Computing & Intelligent Systems Congratulates For getting selected at **accenture** — **NANDITA** B.Tech CSE (IoT & IS) Batch 2021 - 2025

School of Computing & Intelligent Systems Congratulates For getting selected at **BlackRock** — **MOHIT GOYAL** B.Tech CSE (IoT & IS) Batch 2021 - 2025

School of Computing & Intelligent Systems Congratulates For getting selected at **Infosys** — **MANSHA** B.Tech CSE (IoT & IS) Batch 2021 - 2025

School of Computing & Intelligent Systems Congratulates For getting selected at **Infosys** — **KESHAV GUPTA** B.Tech CSE (IoT & IS) Batch 2021 - 2025

School of Computing & Intelligent Systems Congratulates For getting selected at **accenture** — **KATYAYANI** B.Tech CSE (IoT & IS) Batch 2021 - 2025

School of Computing & Intelligent Systems Congratulates For getting selected at **MINDSPRINT** — **HIMANSHU** B.Tech CSE (IoT & IS) Batch 2021 - 2025

School of Computing & Intelligent Systems Congratulates For getting selected at **accenture** — **GAURI TYAGI** B.Tech CSE (IoT & IS) Batch 2021 - 2025

School of Computing & Intelligent Systems Congratulates For getting selected at **M** — **LOVE LAKHWANI** B.Tech CSE (IoT & IS) Batch 2021 - 2025

School of Computing & Intelligent Systems Congratulates For getting selected at **Infosys** — **POORV MANGLA** B.Tech CSE (IoT & IS) Batch 2021 - 2025

School of Computing & Intelligent Systems Congratulates For getting selected at **BlackRock** — **Ashish Goyal** B.Tech CSE (IoT & IS) Batch 2021 - 2025

School of Computing & Intelligent Systems Congratulates For getting selected at **Infosys** — **ARNAV CHAUBEY** B.Tech CSE (IoT & IS) Batch 2021 - 2025

# Top Researcher of The Month Award

| Oct 2024 | Nov 2024 | Dec 2024 |
|---|---|---|
| • Dr Gyanendra Kumar<br>• Dr Dinesh Saini<br>• Dr Nandini Babbar<br>• Dr Praveen Shukla | • Dr Vijay Kumar Sharma<br>• Dr Dinesh Saini<br>• Dr Amita Nandal<br>  Dr Gyanendra Kumar | • Dr G.L. Saini<br>• Dr Vijaypal Singh Dhaka<br>• Dr Geeta Rani<br>• Dr Rohit Mittal<br>• Dr Abhay Sharma |

## JOURNAL PUBLICATIONS

Saxena, A., Santhanavijayan, A., Shakya, H. K., Kumar, G., Balusamy, B., & Benedetto, F. (2024). Nested Sentiment Analysis for ESG Impact: Leveraging FinBERT to Predict Market Dynamics Based on Eco-Friendly and Non-Eco-Friendly Product Perceptions with Explainable AI. Mathematics, 12(21), 3332.

Kumar, G., Gankotiya, A., Rawat, S. S., Balusamy, B., & Selvarajan, S. (2024). IPv6 addressing strategy with improved secure duplicate address detection to overcome denial of service and reconnaissance attacks. Scientific Reports, 14(1), 25148.

Chundawat, J.S., Kumar, A., Saini, M. et al. Mathematical modeling and transient analysis of boiler system in thermal power plant. Life Cycle Reliab Saf Eng (2024). https://doi.org/10.1007/s41872-024-00283-5

Singh, A., Sharma, V. S., Basheer, S., & Chowdhary, C. L. (2024). A Deep Cryptographic Framework for Securing the Healthcare Network from Penetration. Sensors, 24(21), 7089.

Singh, R., Sharma, K. P., & Awasthi, L. K. (2024). A Decade Review of Authentication and Communication Methods in IoT Environment. Wireless Personal Communications, 1-29.

Sharma, Y. K., Ahmed, G., & Saini, D. K. (2024). Uneven clustering in wireless sensor networks: A comprehensive review. Computers and Electrical Engineering, 120, 109844.

Chhimpa, G. R., Kumar, A., Garhwal, S., Khan, F., & Moon, Y. K. (2024). Revolutionizing Gaze-based Human-Computer Interaction using Iris Tracking: A Webcam-Based Low-Cost Approach with Calibration, Regression and Real-Time Re-calibration. IEEE Access.

Bhatnagar, N., Johari, S., Sehgal, V. K., Nandal, A., Alhudhaif, A., Polat, K., & Singh, S. (2024). Identification of theft in a power distribution network: A tree-based approach. Applied Soft Computing, 167, 112449.

Rai, M., Kumar, S., & Rathore, P. S. (2024). A systematic review of innovations for real-time image security in IoT applications using machine learning and blockchain. Journal of Intelligent Manufacturing, 1-20.

Kumar, G., Verma, L. P., Sharma, V. K., Kanellopoulos, D., Pragya, & Rawat, S. S. (2024). R-MPTCP: a rank-based data scheduler for wireless networks. Wireless Networks, 1-20.

Sharma, R., Sharma, V. K., & Singh, A. (2021, November). A review paper on facial recognition techniques. In 2021 Fifth International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud)(I-SMAC) (pp. 617-621). IEEE.

## CONFERENCE PUBLICATIONS

Babbar, N., Kumar, A., & Verma, V. K. (2024, August). Predicting Wheat Yield Using Sequential and Deep Convolutional Neural Networks. In *2024 5th International Conference on Electronics and Sustainable Communication Systems (ICESC)* (pp. 1104-1108). IEEE.

Vanamoju, S. V. M. D., Vineetha, M. V., Tekchandani, H., Joshi, P., Shukla, P. K., & Khanna, A. (2024, November). Facial Emotion Recognition using YOLO based Deep Learning Classifier. In *2024 First International Conference on Electronics, Communication and Signal Processing (ICECSP)* (pp. 1-5). IEEE.

Gangwar, A., Rani, G., Dhaka, V. S., & Khandelwal, S. (2024, July). Selecting a Base Deep Learning Model for Tomato Leaf Disease Classification. In *2024 International Conference on Emerging Trends in Networks and Computer Communications (ETNCC)* (pp. 1-6). IEEE.

Jindal, N., & Gupta, P. (2025). Network Security and the Internet of Things, a Survey on Securing the Future. In *Recent Advances in Computing Sciences* (pp. 31-35). CRC Press.

Poply, S., Sharma, A. K., & Rathore, P. S. (2024, September). Advancing Search Engine Functionality Through AI-Powered Audio Transcription. In *2024 International Conference on Advances in Computing Research on Science Engineering and Technology (ACROSET)* (pp. 1-4). IEEE.

Bhura, A., Sahoo, P., Kumar, A., & Choudhary, U. (2024). IoT-Based Vehicle Class Detection for Smart Traffic Control. In International Conference on Innovations in Computational Intelligence and Computer Vision (pp. 161-170). Springer, Singapore.

Singh, R., Suyal, H., Shivhare, A., & Malviya, L. (2024, November). A Stochastic Hill Climbing Approach for Power Efficiency in Cloud-Based Systems. In 2024 International Conference on Cybernation and Computation (CYBERCOM) (pp. 46-51). IEEE.

Jha, S. K., & Sharma, V. S. (2024, September). Prediction of parkinson disease using hybrid machine learning model for Healthcare Application. In 2024 IEEE North Karnataka Subsection Flagship International Conference (NKCon) (pp. 1-5). IEEE.

Chatterjee, S., Sharma, A. K., & Rathore, P. S. (2024, September). Advancing Skin Cancer Detection: Deep Learning Approaches for Enhanced Diagnostic Accuracy. In 2024 International Conference on Advances in Computing Research on Science Engineering and Technology (ACROSET) (pp. 1-5). IEEE.