MANIPAL UNIVERSITY
JAIPUR

Jan-Mar
2025

IOT TODAY

Latest news and bulletin updates
Technical, Curricular, Co-curricular, Research

Issue#5

Gold Medal in Football, LNMIIT

31st Jan-2nd Feb 2025

Dev Taneja (229303259), Vivaan Sharma (2428020126) and team won the Gold in Football, DESPORTIVOS, annual sports fest at LNMIIT, being the full back of the team and collected the laurels for MUJ.

3rd Place in Basketball TIET, Patiala 14th-16th Feb 2025

Dev Taneja (229303259) and team won the bronze medal in basketball organized at Thapar Institute of Engineering and Technology (TIET) Patiala, an annual sports fest URJA 25.

Participation in IAC 2025

Bhargav Bhagyabat Rahang (22931127) participated in Indian Art Contest (IAC) 2025-Season 13, for sketch artwork, an online contest.

2nd in IRIS'25, IIT Indore!

14th-16th Feb 2025

Prabhav Mishra and team represented PARVARISH at IRIS'25, the flagship event of IIM Indore—and secured 2nd place in Kalpavriksha, the Social Entrepreneurship Competition and competing against some of the brightest minds, to present PARVARISH, their long-standing startup dedicated to creating sustainable social impact.

2nd Position at UTSAV 2025 MAHE, Mangalore 24th-28th Mar 2025

Rhythm Taneja (229303052) and Ram Kaushik (229311119) team secured 2nd place in Utsav '25, organized by MAHE, Mangalore, competing against 25 colleges. Their team has also consistently ranked in the top five at other dance events.

Maharana Kika at RTC

Shivendra Singh (23FE10CII00143) acted in part of the play- MAHARANA KIKA, about the life of Maharana Pratap. Shivendra played the role of Amar Singh, the son of Maharana Pratap. The play was showcased in Rajasthan International Centre (RTC)

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)
Sports Head
Dev Taneja (student)
Curricular Head
Rhythm Taneja (student)
Publicity Head
Dhruv Jhadia

Co-Chair for UNGA, LNMIIT in MUN '25

25th-26th Jan 2025

Prabhav Mishra (229311138), served as the Co-Chair for UNGA at The LNMIIT MUN '25, brings a wealth of experience in debating, navigated complex issues and led impactful discussions, to foster collaboration, tackling intricate ideas, and igniting meaningful debates.

MANIPAL UNIVERSITY
JAIPUR

Jan-Mar
2025

IOT TODAY

Department Corner

Issue#5

Code Relay 21st Feb 2025

Department of IoT & Intelligent Systems and Department of Computer and Communication Engineering in association with TURING SAPIENS organized the Code Relay Capacity Enhancement Session on February 21, 2025. In Code Relay, teams are given a series of coding challenges that they must solve in a relay format. Each team member works on a portion of the code for a set time before passing it to the next member. The goal is to collaboratively complete the challenges as quickly and accurately as possible. The competition emphasizes seamless collaboration, clear communication, and efficient coding practices. Judges evaluate the teams based on the correctness, efficiency, and teamwork demonstrated in their solutions. Winners are recognized for their ability to work together and deliver

Blind Byte 11th Feb 2025

Department of IoT & Intelligent Systems in association with TURING SAPIENS organized the BLIND BYTE on
February 11, 2025. The event, Blind Byte, was a unique and engaging coding competition aimed at testing participants' problem-solving skills and their ability to code under pressure. The twist was that participants were required to solve Data Structures and Algorithms problems without being able to see their screen.

This challenge not only pushed their coding abilities but also tested their memory, mental clarity, and attention to detail. Held over three progressively challenging rounds, the event provided a platform for coders to showcase their skills in an innovative and fun way.

UIXPLOSION

22nd Feb 2025

Department of IoT & Intelligent Systems and Department of Computer and Communication Engineering in association with TURING SAPIENS organized the BLIND BYTE on February 22, 2025. Participants in the UIXplosion work in teams to address a specific design challenge. The sprint is divided into phases: understanding the problem, sketching potential solutions, deciding on the best approach, prototyping the solution, and testing it with users. Throughout the process, teams collaborate, iterate, and refine their ideas based on feedback. The event culminates in presentations where teams showcase their prototypes and insights gained from testing. The

Under25 summit at MUJ

Under25 summit is a one-day event organized by Under25 Manipal University Jaipur under the guidance of the Department of IoT & IS. The agenda of the summit is to bring together speakers, performers and artists from all walks of life to engage with the youth through various mediums like keynotes, panels, workshops and performances. It mainly aims at community involvement and growth.

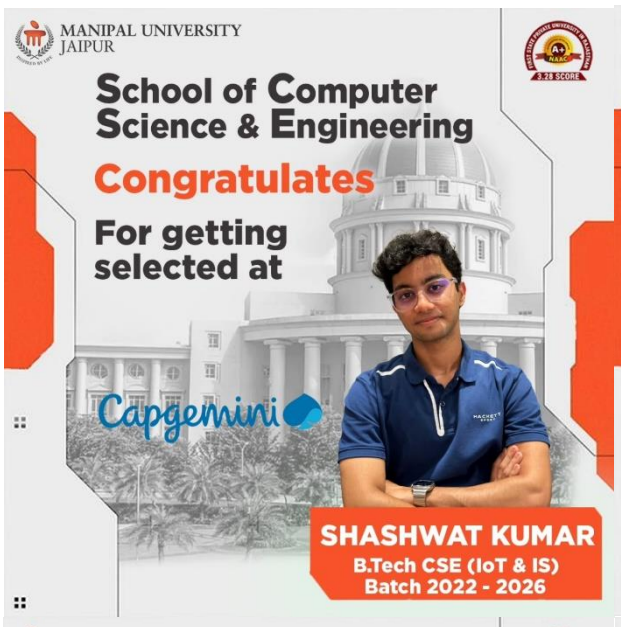
MANIPAL UNIVERSITY
JAIPUR

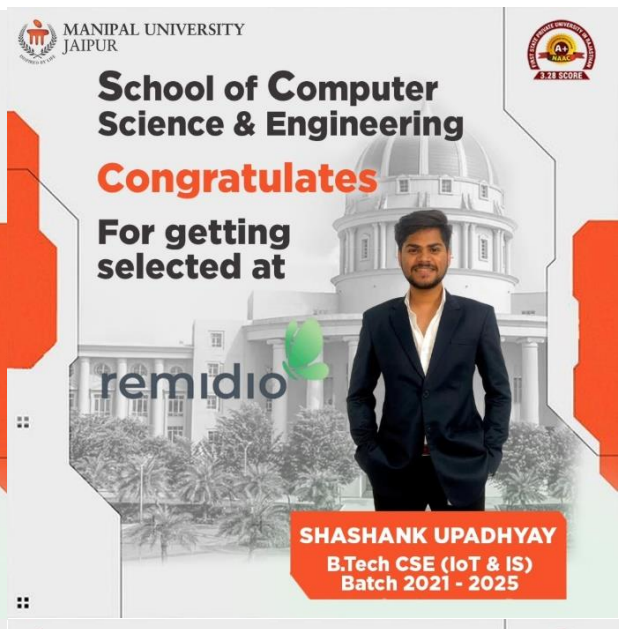
Jan-Mar
2025

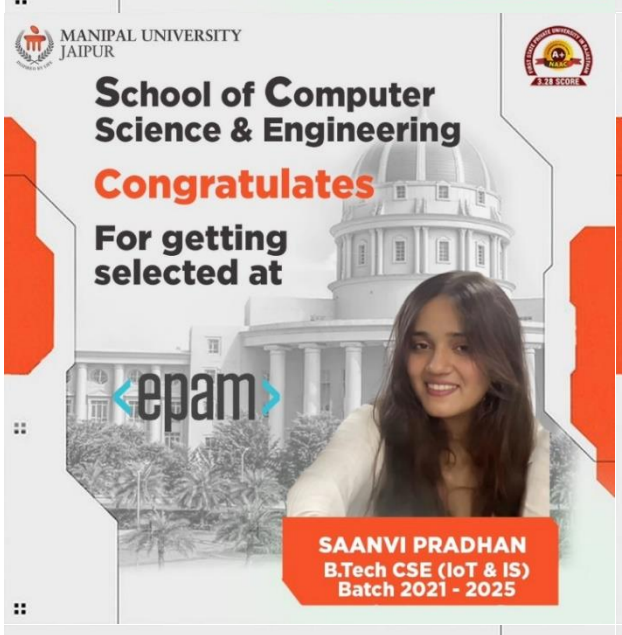
IOT TODAY

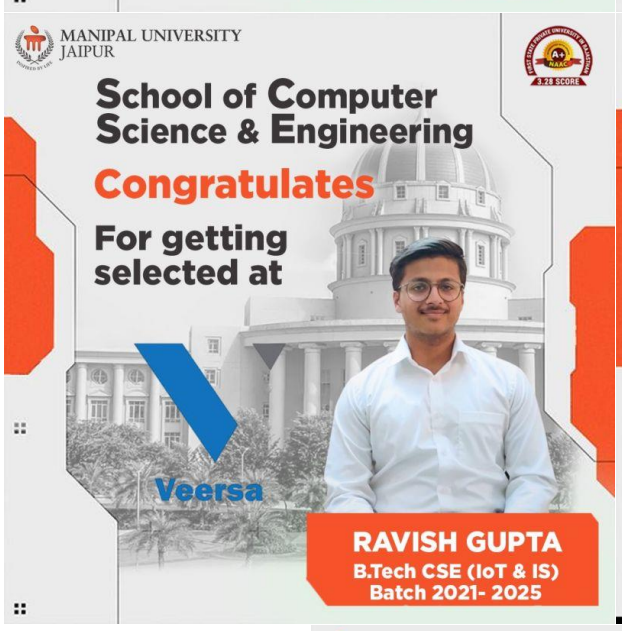
Internship &Placement

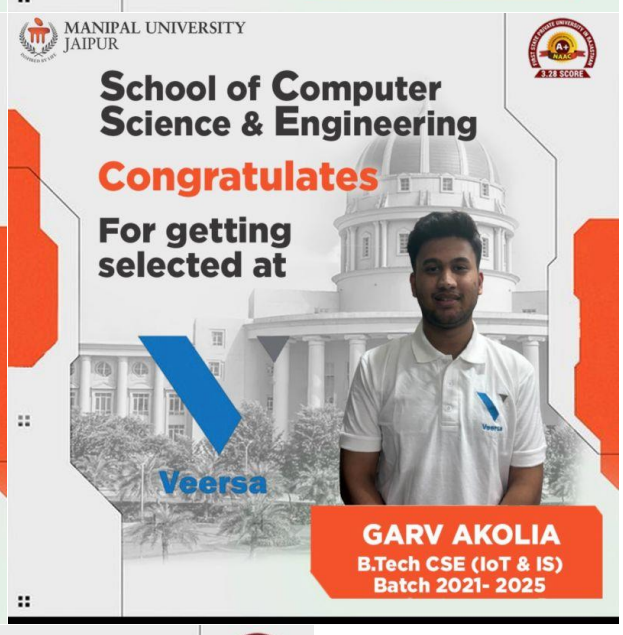
Issue#5

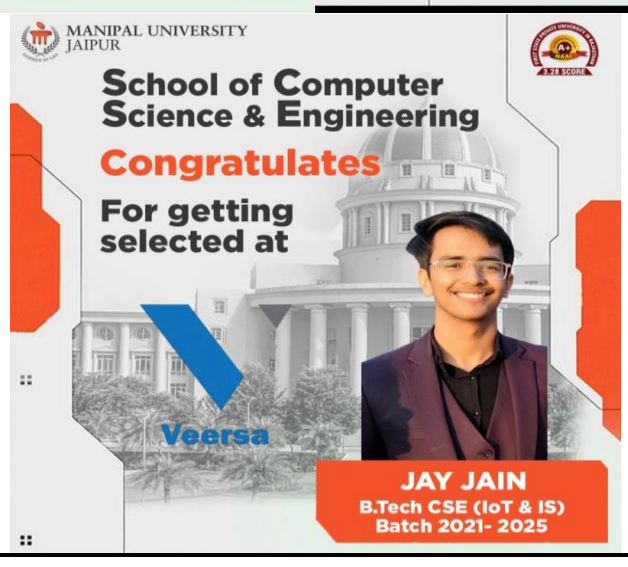












MANIPAL UNIVERSITY
JAIPUR

Jan-Mar 2025

IOT TODAY

Research View

Issue#5

Top Researcher of The Month Award

Jan 2024

• Dr Gyanendra Kumar

JOURNAL PUBLICATIONS

S. P. Singh, N. Kumar, G. Kumar, B. Balusamy, A. K. Bashir and M. M. A. Dabel, "Enhancing Quality of Service in IoT-WSN through Edge-Enabled Multi-Objective Optimization," in IEEE Transactions on Consumer Electronics, doi: 10.1109/TCE.2025.3526992.

Govind R Chhimpa, Ajay Kumar, Sunita Garhwal, Dhiraj Kumar, Real-time human–computer interface based on eye gaze estimation from low-quality webcam images: integration of convolutional neural networks, calibration, and transfer learning, Digital Scholarship in the Humanities, Volume 40, Issue 1, April 2025, Pages 64–74, https://doi.org/10.1093/llc/fqae088

Onker, V., Singh, K.K., Lamkuche, H.S. et al. Harnessing machine learning for academic insight: A study of educational performance in Bhopal, India. Educ Inf Technol (2025). https://doi.org/10.1007/s10639-025-13357-3

Padhy, S., Dash, S., Kumar, N., Singh, S. P., Kumar, G., & Moral, P. (2025). Temporal Integration of ResNet Features with LSTM for Enhanced Skin Lesion Classification. Results in Engineering, 104201.

Tomar, P., Joon, R., Kumar, G., & Karthik, P. (2025). A Reinforcement Learning Inspired Approach for Efficient Cognitive Radio Network Routing. Recent Advances in Computer Science and Communications.

Kumar, A., Saini, K., & Saini, D. K. (2025). Availability predictions of solar power plants using multiple regression and neural networks: an analytical study. Journal of the Nigerian Society of Physical Sciences, 2398-2398.

Sharma, A. K., Nandal, A., Dhaka, A., Alhudhaif, A., Polat, K., & Sharma, A. (2025). Diagnosis of cervical cancer using CNN deep learning model with transfer learning approaches. Biomedical Signal Processing and Control, 105, 107639.

Saini, K., Saini, M., Kumar, A. et al. Performance analysis and optimization in renewable energy systems: a bibliometric review. Discov Appl Sci 7, 178 (2025). https://doi.org/10.1007/s42452-025-06585-2

Rathore, P.S., Kumar, A., Nandal, A. et al. A feature explainability-based deep learning technique for diabetic foot ulcer identification. Sci Rep 15, 6758 (2025). https://doi.org/10.1038/s41598-025-90780-z

Kumar, A., Saini, D. K., & Rao, Y. S. (2025). Mathematical Modeling for Virus Immunization and Vaccination. Engineered Science, 34, 1440.

Kumawat, R., Dua, T., Singh, N., Sharma, J., & Srinivasulu, A. (2025). High Speed Energy Efficient Latch Architectures for Sequential Circuit Design. Journal of VLSI Circuits and Systems, 7(1), 56-65.

CONFERENCE PUBLICATIONS

Gupta, S., Rajwania, M., & Goyal, H. (2024, August). Restaurant Recommendation System based on Cosine Similarity. In 2024 4th Asian Conference on Innovation in Technology (ASIANCON) (pp. 1-6). IEEE.

Nisha, N., Dhaka, V.S., Sinwar, D. (2025). Comparison of Segmentation Algorithms for Extraction of Stone from Kidney X-ray Image. In: Nanda, P., Srivastava, S., Verma, V.K., Vyas, P. (eds) Intelligent System and Data Analysis. SSIC 2023. Smart Innovation, Systems and Technologies, vol 398. Springer, Singapore. https://doi.org/10.1007/978-981-97-5200-3_26

Saini, G.L., Singh, K.D., Singh, P.D. (2025). Exploring High-Dimensional Data Visualization in MATLAB: A Case Study with Carbig Dataset. In: Bansal, J.C., Sharma, H., Chakravorty, A. (eds) Congress on Smart Computing Technologies. CSCT 2022. Smart Innovation, Systems and Technologies, vol 396. Springer, Singapore. https://doi.org/10.1007/978-981-97-8096-9_31

Sinwar, D. (2025). Operational Availability Optimization of Turbo Generators Using Nature-Inspired Algorithms. In: Tuba, M., Akashe, S., Joshi, A. (eds) ICT Systems and Sustainability. ICT4SD 2024. Lecture Notes in Networks and Systems, vol 1194. Springer, Singapore. https://doi.org/10.1007/978-981-97-9523-9_29

S. S. Rawat, A. Chand, M. K. Singh, G. Kumar and L. P. Verma, "Strengthening Plant Disease Detection Using Ensemble Learning," 2024 International Conference on Computing, Sciences and Communications (ICCSC), Ghaziabad, India, 2024, pp. 1-5, doi: 10.1109/ICCSC62048.2024.10830418.

G. K. B C et al., "Framework for evaluation and providing Security in the tourism industry for a Trustworthy Rating System," 2024 12th International Conference on Internet of Everything, Microwave, Embedded, Communication and Networks (IEMECON), Jaipur, India, 2024, pp. 1-6, doi: 10.1109/IEMECON62401.2024.1084670

D. N A et al., "Virtual Learning Environment - Evaluation of Learner's Behavior Using Topic Models," 2024 12th International Conference on Internet of Everything, Microwave, Embedded, Communication and Networks (IEMECON), Jaipur, India, 2024, pp. 1-6, doi: 10.1109/IEMECON62401.2024.10846077.

S. S. Rawat et al., "Lung Cancer Detection using CNN," 2024 1st International Conference on Sustainable Computing and Integrated Communication in Changing Landscape of AI (ICSCAI), Greater Noida, India, 2024, pp. 1-5, doi: 10.1109/ICSCAI61790.2024.10866213.

Y. Arora, A. Singh, A. Sharma, N. Aggarwal and N. Bansal, "Advancements in Chatbot Technology: Enhancing User Experience through AI and NL," 2024 International Conference on Artificial Intelligence and Quantum Computation-Based Sensor Application (ICAIQSA), Nagpur, India, 2024, pp. 1-6, doi: 10.1109/ICAIQSA64000.2024.10882205

P. Joshi, A. Kumari, N. Bhardwaj, H. Tekchandani and P. K. Shukla, "Improving Energy Efficiency in Three-Tier IoT Sensor Networks Through NDFT-based Power Optimization," 2024 International Conference on Intelligent & Innovative Practices in Engineering & Management (IIPEM), Singapore, Singapore, 2024, pp. 1-6, doi: 10.1109/IIPEM62726.2024.10925798.

EDITED BOOK

Roy, S., Sinwar, D., Dey, N., Perumal, T., & Tavares, J. M. R. (2024). Innovations in Computational Intelligence and Computer Vision. Proceedings of ICICV, 1.

Sharma, A. K., Kumar, S., Chaurasia, S., & Babbar, N. Optimizing k-means clustering with focus on time-efficient algorithms. In Recent Advances in Sciences, Engineering, Information Technology & Management (pp. 112-121). CRC Press.