JHARKHAND Rai University
RANCHI

Bi-Annual Newsletter

Proudyogam

COMPUTER SCIENCE & ENGINEERING AND INFORMATION TECHNOLOGY

VOLUME - 01 | ISSUE - I | Fall - 2025

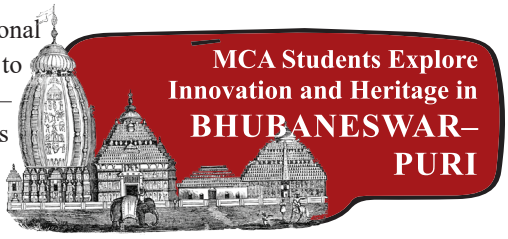
Soaring High with Innovation

3-Day Drone Bootcamp Empowers Tech Enthusiasts

A three-day Drone Bootcamp on "Electronics for Unmanned Aerial Systems, Sensors & Communication" was successfully organized in association with RealSkill. Led by Mr. Rishab Rathore, Technical Head, RealSkill, the bootcamp provided comprehensive hands-on training in drone technology. Students explored the fundamentals of Unmanned Aerial Systems (UAS), multicopters, motors, sensors, flight controllers, and communication systems. Through interactive sessions and practical demonstrations, participants assembled and calibrated QUAD-DIY drone kits while gaining insights into real-world applications of drones in agriculture, surveillance, disaster management, and logistics.

The final day focused on DGCA guidelines and live drone flying sessions, where students practiced mission planning and safe operational techniques. With the participation of 125 internal attendees, the bootcamp offered valuable experiential learning that strengthened technical confidence, problem-solving skills, and awareness of regulatory frameworks. The event successfully inspired students to explore emerging opportunities in drone technology and unmanned systems, reinforcing a commitment to skill development and innovation-driven education.

Learning Beyond Classroom



An educational excursion to Bhubaneswar–Puri was organized for MCA students, blending industrial exposure, academic learning, and cultural enrichment. Students visited O-Hub and several IT companies under Startup Odisha, where they gained insights into startup ecosystems, incubation facilities, and innovation support frameworks. The tour also included a visit to IIT Bhubaneswar, where students received hands-on exposure to advanced technologies such as AR/VR and Drone Technology, broadening their understanding of emerging tech applications.

Alongside technical learning, the excursion offered rich cultural experiences through visits to the UNESCO World Heritage Site Konark Sun Temple, Kalabhoomi Crafts Museum, Lingaraj Temple, and the scenic beaches of Chandrabhaga and Puri. With a total of 22 internal participants, the tour successfully provided a holistic learning experience, combining industry interaction, exposure to cutting-edge technologies, cultural awareness, and personal development beyond the classroom.

ABOUT THE DEPARTMENT

The Faculty of Computer Science Engineering and Information Technology (CSE & IT), established in 2013, offers BCA, MCA, Diploma in CSE, and B. Tech in CSE with specialization in Artificial Intelligence and Machine Learning, providing students with a robust foundation in computing. And, the department offers Ph.D programme. The department fosters a dynamic environment where graduates are equipped to excel in academia and industry.

We nurture innovators, who are poised to make impactful contributions to the evolving field of Computer Science. Research focuses on key areas of the contemporary world like Machine Learning, Deep Learning, Cloud Computing, Data Science, and Information Security, along with interdisciplinary applications like Smart Agriculture, FinTech, Healthcare Analytics, and Cyber-Physical Systems.

The department also plays a pivotal role in shaping the future of technology. It prepares graduates for leadership roles in both academia and high-tech industries by emphasizing interdisciplinary research and technical expertise. With a vision to transform the social, geographical, and economic landscape through innovative computing, the department aims to bridge the digital divide and drive the progress towards an inclusive nation. Its mission focuses on integrating research, innovation, education, development, and industry collaboration, positioning itself to make significant contributions to the global technology sector while addressing local challenges.

VISION

To develop the Faculty of Computer Science Engineering and Information Technology as a Center for Excellence to produce leading Professionals who can serve the society with innovative skills, Computer Experts, Researchers to meet the needs of the software industry in national/ global scenario responding to the challenges of ever changing world.

MISSION

- ❖ We endeavour to provide the best possible learning environment to enhance innovations, research capabilities, problem solving skills, leadership qualities, team spirit and ethical responsibilities.
- ❖ To nurture the talent of the students to be successful, ethical and effective problem solvers who will contribute positively to the economic growth of the nation and prepare to respond to the challenges.

Message from the HEAD OF THE DEPARTMENT

Ms. Anuradha Sharma

It gives me immense pleasure to present the achievements and progressive journey of the Faculty of Computer Science Engineering and Information Technology. Since its establishment in 2013, the department has continuously strived to maintain academic excellence, promote innovation, and foster a culture of research and entrepreneurship. Our aim is not only to impart technical knowledge but also to develop responsible professionals equipped with critical thinking, ethical values, and leadership qualities.

The department offers a wide spectrum of programmes including BCA, MCA, B.Tech (CSE), Diploma (CSE), and Ph.D., ensuring holistic development from foundational learning to advanced research. With the support of our highly qualified and dedicated faculty members, we emphasize outcome-based education, industry-relevant curriculum, hands-on learning, and continuous mentoring. Our collaborations with reputed institutions and industries, along with active startup initiatives and strong placement records, reflect our commitment to bridging the gap between academia and industry.

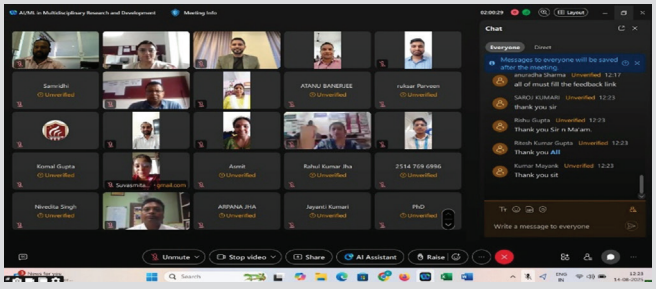
We take pride in our vibrant ecosystem that encourages innovation, research publications, technical events, internships, skill development programmes, and entrepreneurial ventures. The success of our students in securing placements in leading national and multinational companies and in launching their own startups is a testament to the department's sustained efforts and vision.

I extend my sincere gratitude to our faculty members, students, alumni, industry partners, and university leadership for their unwavering support and contribution. Together, we will continue to strive for excellence and shape future-ready professionals who contribute meaningfully to society and the global technological landscape.

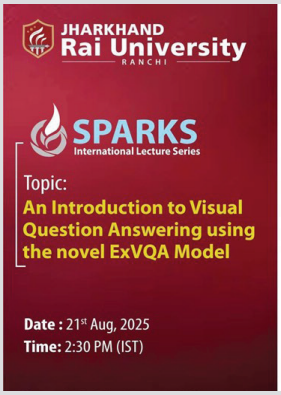
International Lecture on AI/ML in Multidisciplinary Research and Development

An International Lecture under the SPARKS Lecture Series on the theme "AI/ML in Multidisciplinary Research and Development" was organized in hybrid mode at the Seminar Hall. The session was delivered by Dr. Roshan G. Ragel from University of Peradeniya, who highlighted the transformative role of Artificial Intelligence and Machine Learning across diverse domains including healthcare, smart systems, cybersecurity, data analytics, and engineering applications. The lecture emphasized real-world case studies, emerging global research trends, and collaborative opportunities in AI/ML-driven innovation.

Students, research scholars, and faculty members actively participated in the session, gaining valuable international research exposure and deeper insights into interdisciplinary and research-oriented approaches.



SPARKS International Lecture Series



Resource Person

Prof. (Dr.) Bui Thanh Hung
Faculty Member,
Data Science Laboratory,
Faculty of Information Technology,
Industrial University of HCM City,
Vietnam

A special session under the SPARKS International Lecture Series was organized in hybrid mode at the Seminar Hall. The lecture, titled "An Introduction to Visual Question Answering using the Novel ExVQA Model," was delivered by Prof. (Dr.) Bui Thanh Hung from Industrial University of Ho Chi Minh City. He introduced the fundamentals of Visual Question Answering (VQA) and explained how the novel ExVQA model enhances reasoning and interpretability in AI-based visual systems.

The session highlighted applications of VQA in healthcare, robotics, intelligent systems, and multimedia analysis, while exposing students, research scholars, and faculty members to advanced AI/ML research methodologies and global research practices, encouraging research-oriented and interdisciplinary learning.

EXPERT TALK

"Innovation as a Career Catalyst for CSE Graduates"

Expert : Mr. Bijendra Sharma
Founder Director of HITCS Pvt. Ltd., Ranchi

An expert talk on the theme "Innovation as a Career Catalyst: How Emerging Technologies are Expanding Horizons for CSE Graduates" was organized in collaboration with the Institution's Innovation Council (IIC). The session was delivered by Mr. Bijendra Sharma, Founder Director of HITCS Pvt. Ltd., who highlighted how innovation and emerging technologies such as Artificial Intelligence, Machine Learning, Cloud Computing, and IoT are transforming industries and creating new career opportunities for CSE graduates.

He encouraged students to adopt continuous learning, develop entrepreneurial skills, and remain adaptable in the evolving technological landscape. The interactive session provided valuable insights into career pathways, startups, and future-ready technologies, motivating students to embrace innovation-driven professional growth.

"Emerging Trends and Career Prospects in Computer Science"

Expert : Mr. Abhishek Sinha
Director, Virtu Information Technologies Pvt. Ltd. , Vijayawada

An expert talk on the theme "Emerging Trends and Career Prospects in Computer Science" was organized. The session was delivered by Mr. Abhishek Sinha, Director of Virtu Information Technologies Pvt. Ltd., who discussed the rapid evolution of the IT industry driven by technologies such as Artificial Intelligence, Blockchain, Data Science, Cybersecurity, and Cloud Computing. He highlighted diverse career opportunities in multinational companies, startups, entrepreneurship, and research, and emphasized the importance of continuous learning, certifications, internships, and skill development.

The interactive session provided students with valuable insights into future career pathways and motivated them to adopt a proactive and skill-oriented approach in their professional journey.

"Future of Work in the Digital Era"

Expert : Mr. Dhananjay Singh, Chief Technical Officer (CTO), Ashvik Solutions, Ranchi

An expert talk on the theme "The Future of Work: How Digital Transformation is Shaping Careers" was organized. The session was delivered by Mr. Dhananjay Singh, Chief Technical Officer at Ashvik Solutions, who shared valuable insights into how digital transformation, automation, cloud computing, artificial intelligence, and data-driven technologies are redefining job roles across industries.

He emphasized the importance of continuous learning, adaptability, and acquiring future-ready skills to stay competitive in the evolving job market. The interactive session helped students understand emerging career opportunities and industry expectations, motivating them to align their skills with the demands of the digital era.

"Career Pathways in IT after BCA"

Expert : Mr. Kunal Sinha, Chairman & CEO, Artificial Computing Machines, Ranchi

An expert talk on the theme "Career Pathways in IT: Opportunities after BCA" was organized. The session was delivered by Mr. Kunal Sinha, Chairman & CEO of Artificial Computing Machines, who guided students on various career options after BCA, including software development, IT support, cybersecurity, and data analytics. He also discussed higher education opportunities, certifications, and the importance of industry-relevant skills for professional growth.

The interactive session helped students gain clarity on career choices and motivated them toward continuous learning, entrepreneurship, and industry readiness.

"Leveraging AI to Become a Better Software Engineer"

Expert : Mr. Aditya Kulraj Kunwar, Senior Engineer, Microsoft, Hyderabad

An expert talk on the theme "Leveraging AI to Become a Better Software Engineer" was organized. The session was delivered by Mr. Aditya Kulraj Kunwar, Senior Engineer at Microsoft, who shared valuable industry insights on how Artificial Intelligence is transforming modern software engineering practices across development, testing, debugging, and deployment. He demonstrated how AI-powered tools enhance productivity, improve code quality, and accelerate problem-solving, while emphasizing the importance of ethical AI usage, continuous upskilling, and adaptability.

The interactive session provided students with practical guidance on integrating AI-driven tools into their learning and professional journey, inspiring them to align their technical skills with evolving industry advancements

WORKSHOPS

Resume Building for Placement Readiness

A workshop on "Resume Building" was organized in collaboration with the Career Management Cell (CMC). The session was conducted by Mr. Rajesh Mishra and Mr. Dhananjay Singh from Ashvik Solutions, who provided practical guidance on creating professional, industry-oriented resumes.

They explained effective resume structure, the importance of highlighting technical skills, academic projects, internships, certifications, and achievements, as well as common mistakes to avoid. The interactive workshop helped final-year students of BCA, MCA, and B.Tech (CSE) understand industry expectations, improve their employability, and gain confidence in preparing for campus placements and job interviews.

Basics of Cyber Hygiene for Higher Education Institutions

An inter-departmental workshop on "Basics of Cyber Hygiene for Higher Education Institutions" was organized under the Deeksharambh Programme. The session was conducted by Dr. Kumar Amrendra, who introduced participants to the UGC Cyber Hygiene Handbook and emphasized the importance of digital safety within academic environments. He highlighted key aspects such as strong password practices, data privacy, safe online behavior, and protection against common cyber threats.

The session witnessed enthusiastic participation from students and staff members, followed by an engaging quiz and interactive discussion. The programme concluded with a pledge by participants to adopt responsible and ethical digital practices, reinforcing awareness and commitment toward cyber security across the academic community.

ALUMNI WIT

"Bridging the Gap from Campus to Corporate"

Alumni : Ms. Astha Priya

Alumnus (BCA), Next Gen Associate, WIPRO

An Alumni WIT session on the theme "Bridging the Gap from Campus to Corporate: My Journey in IT" was organized in collaboration with the Alumni Association. The session was delivered by Ms. Astha Priya, an alumna of BCA and currently a Next Gen Associate at Wipro, who shared her journey from student life to a professional role in a reputed IT organization. She discussed the challenges faced during placements and emphasized the importance of technical skills, communication, internships, and industry exposure.

The interactive session provided students with practical insights into corporate culture, career growth, and industry expectations, inspiring them to prepare effectively for their professional careers.

"Lifelong Learning in the Tech Landscape"

Alumni : Mr. Gyan Kumar Lal

Alumnus (B.Tech CSE), Process, Executive, Nimbus Ltd., Ranchi

A session on the theme "Lifelong Learning: Staying Relevant in a Rapidly Changing Tech Landscape" was organized. The session was delivered by Mr. Gyan Kumar Lal, an alumnus of B.Tech (CSE) and currently a Process Executive at Nimbus Ltd., who shared his professional journey and highlighted the importance of continuous learning, certifications, and staying

updated with technologies such as AI, Cloud, and Cybersecurity. He discussed practical strategies to remain competitive in the IT industry and overcome career stagnation. The interactive session provided valuable insights into learning platforms, skill development, and career planning, motivating students to adopt a mindset of lifelong learning and continuous upskilling.

"Bridging the Gap from Campus to Corporate: My Journey in It"

Alumni : Mr. Nikhil Kumar

Alumnus (MCA), Senior DevOps Engineer, Teqfocus (Data and AI Company), Ranchi

An Alumni WIT programme on the theme "Bridging the Gap from Campus to Corporate: My Journey in IT" was organized in collaboration with the Alumni Association. The session was delivered by Mr. Nikhil Kumar, an alumnus of MCA and currently Senior DevOps Engineer at Teqfocus, who shared his professional journey, highlighting the challenges faced during placements and the importance of building expertise in DevOps, Artificial Intelligence, and Cloud technologies. He emphasized adaptability, problem-solving abilities, teamwork, and continuous skill enhancement as key factors for corporate success. The interactive session provided students with practical insights into certifications, career growth strategies, and industry readiness, motivating them to prepare confidently for their transition into the IT sector.

"Transitioning from Campus to Corporate Life"

Alumni : Mr. Abhishek Shubham

Alumnus (B.Tech CSE), Executive Talent Acquisition, Vyze Inc., Ranchi

A session on the theme "From Campus to Corporate: Navigating the Transition Successfully" was organized. The session was delivered by Mr. Abhishek Shubham, an alumnus of B.Tech (CSE) and currently Executive Talent Acquisition at Vyze Inc., who shared valuable insights into the transition from academic life to the corporate world.

He highlighted workplace expectations, interview preparation strategies, the importance of internships, professional networking, and the role of soft skills and adaptability in career success. The interactive session provided students with practical guidance on resume building, interview techniques, and corporate culture, enhancing their confidence and readiness to enter the professional workforce.

Panel Discussion on Redefining Family Business in the Digital Era

A panel discussion in collaboration with the Institution's Innovation Council (IIC) on the theme "Redefining Family Business in the Digital Era: Opportunities for IT Students as Entrepreneurs and Innovators" was organized in hybrid mode. The session featured eminent industry leaders Mr. Gaurav Kothari, Mr. Ayush Gadia, and Ms. Mansi Y. Thakkar, who shared their experiences of transforming traditional family businesses through digital technologies such as automation, data analytics, e-commerce, and digital marketing.

Moderated by Ms. Anuradha Sharma, the discussion highlighted entrepreneurial opportunities for IT students and the importance of innovation in modern business models. The interactive session encouraged students to explore technology-driven entrepreneurship and apply their IT skills to create sustainable and scalable business solutions..

Cyber Hygiene: Building Safe Digital Habits - Webinar

A webinar on the theme "Cyber Hygiene: Building Safe Digital Habits" was organized under the initiative "Cyber Jagrit Bharat," in association with Cyber Peace Corps. The session was delivered by Ms. Kartik Chauhan, Master Trainer from Cyber Peace Foundation, under the ISEA Project of the Ministry of Electronics and Information Technology.

She discussed essential cyber hygiene practices, including safe internet usage, password management, phishing awareness, data privacy, cyber fraud prevention, and responsible use of digital platforms. Real-life cybercrime examples were shared to help participants understand the importance of proactive digital safety. The interactive webinar enhanced awareness among students and faculty about cyber threats and encouraged them to adopt safe, responsible, and ethical digital practices.

SMART THINKING WITH AI: Inspiring Students for an Intelligent Future

An induction programme titled "Smart Thinking with AI: From Basics to Breakthrough Applications" was organized in collaboration with LEARNET – Skills for Life. The session introduced students to the fundamentals of Artificial Intelligence, its real-world applications, and its role in transforming modern education and industry. Through interactive discussions and practical examples, students explored how AI can enhance analytical thinking, intelligent problem-solving, automation, data analytics, and smart decision-making.

The programme witnessed enthusiastic participation from 95 internal participants and successfully motivated students to adopt AI-driven learning approaches for their academic growth and future careers.

Industry Exposure for Future Tech Professionals at STPI, Ranchi

An industrial visit to Software Technology Parks of India (STPI), Ranchi was organized for BCA first-semester students. The visit aimed to provide early exposure to the professional IT environment and help students understand the functioning of software parks, incubation facilities, and support systems for startups and technology-driven enterprises.

During the interaction, students learned how classroom concepts are applied in real-world software development and IT operations. A total of 60 internal participants took part in the visit, which successfully enhanced students' awareness of industry practices and motivated them to focus on skill development and career opportunities in the IT sector.

BCA Student Explores Real-World IT Ecosystem at STPI, Ranchi

An industrial visit to Software Technology Parks of India (STPI), Ranchi was organized for BCA first-semester students of Section-B. The visit aimed to provide early exposure to the professional IT environment and help students understand the functioning of software parks, incubation facilities, and support systems for startups and technology enterprises.

Students were introduced to real-world IT infrastructure, software development practices, and the role of STPI in promoting the startup and software export ecosystem. With the participation of 54 internal members, the visit successfully enhanced students' awareness of industry expectations and inspired them to focus on skill development and future careers in the IT sector.

LEVEL UP WITH AI: Empowering Students for Innovation

An expert talk titled "Level Up with AI: A Student's Toolkit – Fostering Innovation" was organized in association with the Institution's Innovation Council (IIC). The session was delivered by Mr. Abhishek Sagar, Co-founder and CEO of Zuraverse, who introduced students to practical AI tools and real-world applications that can enhance learning, productivity, and innovation.

He highlighted how AI can support problem-solving, creativity, and startup-oriented thinking while also emphasizing the importance of ethical and responsible AI usage. With the participation of 62 internal attendees, the session inspired students to explore AI-driven projects, research, and entrepreneurial opportunities.

INDUSTRY EXPOSURE AT CODEZEAL: Bridging Classroom Learning with Real-World IT

An industrial visit to Codezeal Technology Private Limited, MIMEC Tech Park, Ranchi, was organized for first-semester B.Tech CSE students. The visit aimed to provide early exposure to a professional software development environment and familiarize students with industry workflows, tools, and practices.

During the session, industry experts explained various stages of software development, including project planning, coding, testing, and deployment, along with insights into emerging technologies and teamwork. A total of 67 students participated in the programme, making it a valuable learning experience.

REAL-WORLD SOFTWARE INSIGHTS: B.Tech CSE Students Visit Codezeal

An industrial visit to Codezeal Technology Private Limited, MIMEC Tech Park, Ranchi, was organized for first-semester B.Tech CSE (Section-B) students. The visit aimed to provide students with exposure to a real-world software development environment and help them understand industry workflows, tools, and professional practices.

Industry experts introduced students to various stages of software development, including planning, coding, testing, and deployment, along with insights into emerging technologies and teamwork. With the participation of 72 students, the visit was successful in helping them understand current industry practices and the importance of skills in the professional world.

FACULTY ACHIEVEMENTS
NEWS IN BRIEF

Dr. Kumar Amrendra Serves as Master Trainer at UGC–IKS Orientation Programme

Dr. Kumar Amrendra served as a Master Trainer in the One-Day Orientation Programme for UGC–IKS Master Trainers held at the University of Lucknow. The programme focused on promoting the Indian Knowledge System and strengthening its integration into higher education. His participation reflected

academic leadership and active contribution to national-level educational initiatives.

Faculty Members Recognized as Top Performing Mentors by SWAYAM

Two faculty members from the department, Dr. Kumar Amrendra and Anuradha Sharma, received the Top Performing Mentor certificate from SWAYAM. The recognition acknowledged their dedicated mentorship and continuous support to students in successfully completing SWAYAM and NPTEL courses.


NPTEL

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CERTIFICATE

OF APPRECIATION

is awarded to

KUMAR AMRENDRA

JHARKHAND RAI UNIVERSITY

RANCHI, JHARKHAND

TOP PERFORMING MENTOR

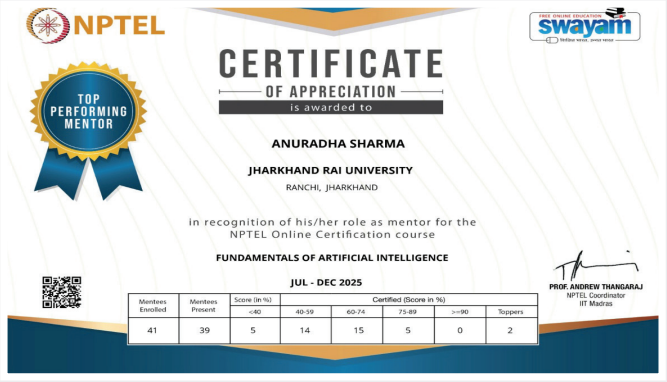
in recognition of his/her role as mentor for the NPTEL Online Certification course

INTEGRATED WASTE MANAGEMENT FOR A SMART CITY

JUL - DEC 2025

Mentees Enrolled	Mentees Present	Score (in %)	Certified (Score in %)				
		<40	40-59	60-74	75-89	>=90	Toppers
148	136	38	50	45	3	0	1

PROF. ANDREW THANGARAJ
NPTEL Coordinator
IIT Madras


NPTEL

swayam

CERTIFICATE

OF APPRECIATION

is awarded to

ANURADHA SHARMA

JHARKHAND RAI UNIVERSITY

RANCHI, JHARKHAND

TOP PERFORMING MENTOR

in recognition of his/her role as mentor for the NPTEL Online Certification course

FUNDAMENTALS OF ARTIFICIAL INTELLIGENCE

JUL - DEC 2025

Mentees Enrolled	Mentees Present	Score (in %)	Certified (Score in %)				
		<40	40-59	60-74	75-89	>=90	Toppers
41	39	5	14	15	5	0	2

PROF. ANDREW THANGARAJ
NPTEL Coordinator
IIT Madras

Their achievement highlighted the department's commitment to promoting quality online learning and academic excellence.

Dr. Kumar Amrendra Invited as Chairperson at National Seminar

Dr. Kumar Amrendra was invited as a Chairperson at the All India Seminar on "Innovation and Research in Artificial Intelligence and Machine Learning" organized by the Institution of Engineers (India), Jharkhand State Centre. On 2025 His role as session chair reflected his academic expertise and active contribution to national-level technical forums.

Dr. Kumar Amrendra Invited as Expert Panelist at National Conference

Dr. Kumar Amrendra was invited as an expert panelist at the National Visioning Conference titled "Envisioning Tomorrow's University: A Transdisciplinary Dialogue on the Future of Education." The conference was held at IIIT Ranchi and organized by MIT World Peace University, Goa. His participation reflected his academic leadership and contribution to discussions on the future of higher education.

Dr. Kailash Pati Dutta Receives ISTE Best FACULTY AWARD 2025

Dr. Kailash Pati Dutta was honored with the ISTE Best Faculty Award 2025 by the ISTE Bihar and Jharkhand Section. The award was presented during GGSESTC 2025 held on 31 October–1 November 2025, recognizing his outstanding contributions to teaching and academic excellence.

Dr. Kailash Pati Dutta Honored with Utkrishtha Sikshak Samman 2025

Dr. Kailash Pati Dutta was conferred the Utkrishtha Sikshak Samman 2025 by the Jharkhand Government Tool Room, Ranchi, an organization under the Government of Jharkhand. The award, presented on 19 September 2025, recognized his excellence and dedication in the field of education.

DR. MD. IRFAN ALAM

- Appointed as an Editorial Board Member of the American Journal of Electrical and Computer Engineering (AJECE) in the field of computer and electrical engineering (ISSN Online: 2640-0502; ISSN Print: 2640-0480).
- Served as an Editor for the e-Book of Abstracts (INSIGHTS & INNOVATIONS) of the International Conference on Recent Advances in Artificial Intelligence for Sustainable Development (RAISD 2025), held on 7–8 March 2025 (ISBN: 978-81-991265-7-2).
- Conference Editor & Convener — RAISD 2025 (7–8 March 2025), Proceedings of the Recent Advances in Artificial Intelligence for Sustainable Development, published by Atlantis Press (Springer Nature).
- Served as a reviewer for American Journal of Electrical and Computer Engineering (AJECE), reviewing the article titled "An alternate formulation for computing and validating Shannon Entropy" (ISSN Online: 2640-0502; ISSN Print: 2640-0480).
- Served as a reviewer for the European Journal of Computer Sciences and Informatics, reviewing the article titled "Ensembled Cryptosystem with Modified Caesar Cipher and RSA Algorithm for Securing Medical Data in the Cloud" on January 10, 2026.
- Co-chaired — International Conference on Innovative Convergence for Sustainable Future (ICICSF), 12–13 December 2025 organized by Department of Commerce and Management, Jharkhand Rai University, Ranchi.

DR. KUMAR AMRENDRA

- Resource person in the Refresher Course in IKS (Indian Knowledge System) organized by UNIVERSITY GRANTS COMMISSION, MALAVIYA MISSION TEACHER TRAINING CENTRE (MMTTC), RANCHI UNIVERSITY, RANCHI
- Resource person in the Short-Term Course in Artificial Intelligence organized by UNIVERSITY GRANTS COMMISSION, MALAVIYA MISSION TEACHER TRAINING CENTRE (MMTTC), RANCHI UNIVERSITY, RANCHI
- Recognized as a reviewer at the International Conference on Recent Advances in Artificial Intelligence for Sustainable Development (RAISD 2025).

PUBLICATIONS OF THE DEPARTMENT

ANURADHA SHARMA

- Sharma, A., & Sahana, S. K. (2025). An efficient neural network-based mathematical modelling for iron ore quality prediction. In Lecture Notes in Computer Science (Vol. 16012, pp. 161–174). Springer. https://doi.org/10.1007/978-981-95-0985-0_13
- Kumar, K., Sourabh, S., Kumar, A., Kumar, C., Kumari, P., Sharma, A., & Amrendra, K. (2025). Biometric authentication revolution: The role of AI and UIDAI in digital payments. International Journal of Research in Interdisciplinary Studies, 3(12), 15–19. https://doi.org/10.65138/ijris.2025.v3i12.240
- Mahto, B., Varma, A. K., Kumari, S., Parveen, R., Firdous, C., Sharma, A., & Amrendra, K. (2025). Smart Pocket: A machine learning–based expense tracker and spending predictor. International Journal of Research and Innovation in Applied Science, 10(11), 352–362. https://doi.org/10.51584/IJRIAS.2025.101100032

DR. MD. IRFAN ALAM

- Published the article titled "Advancements and Challenges in Natural Language Processing for Low-Resource Languages: A Comprehensive Review" in The Asian Thinker (ISSN: 2582-1296), Year-7, Volume IV (Special), Issue-28, October–December 2025.
- Published the research paper titled "Blockchain-Based Efficient Framework for Smart Grid Data Security" in International Journal of Science and Engineering Applications, Volume 14, Issue 07, pages 69–73, 2025, ISSN: 2319-7560, DOI: 10.7753/IJSEA1407.1012.
- Published an article titled "Indian Knowledge System: The Guiding Light for the Ethical Use of AI for the Detection of Alzheimer's Disease" in The Asian Thinker (ISSN: 2582-1296), Year-7, Volume IV (Special), Issue-28, October–December 2025
- Published the paper titled "AI-Powered Career Guidance: Personalizing Career Paths with Machine Learning," International Journal of Science and Engineering Applications, Vol. 14, Issue 8, pp. 42–46, August 2025, The Association of Technology and Science.
- Published the paper titled "Securing Cloud Data with DNA and RNA-Based Cryptographic Algorithms: A Python Implementation," International Journal of Science and Engineering Applications, Vol. 14, Issue 8, pp. 10–15, 2025, ISSN 2319-7560, DOI: 10.7753/IJSEA1408.1003

DR. BINOD KUMAR

- B. Kumar, P. Somasundari, S. Upadhyay, A. Chakraborty, A. Lakra and M. Kumar, "Internet of Things (IoT) from the Viewpoint of Energy Efficiency and Security: A Review," 2024 International BIT Conference (BITCON), Dhanbad, India, 2024, pp. 1-6, doi: 10.1109/BITCON63716.2024.10985137.
- Burman, R. K., Kumar, A., Kumari, S., Kumar, N., Kumar, B., & Kumar, V. (2025). Machine learning based anomaly detection for network intrusion detection in cyber security. In Proceedings of the Recent Advances in Artificial Intelligence for Sustainable Development (RAISD 2025) (pp. 532–546). Atlantis Press. https://doi.org/10.2991/978-94-6463-787-8_42
- Maharana, K. C., Kumar, B., Guru, S., Behera, B. P., & Upadhyay, S. (2025). Synergizing customer convenience and fraud prevention: Strategies for sustainable digital payments to enhance satisfaction. In Proceedings of the Recent Advances in Artificial Intelligence for Sustainable Development (RAISD 2025) (pp. 547–562). Atlantis Press. https://doi.org/10.2991/978-94-6463-787-8_43

DR. KAILASH PATI DUTTA

- Dutta, K. P., Kumar, A., Jain, P., & Sahu, S. S. (2025). Design Development of Computer Numeric Controlled Milling-Cum-3 D Printing Hybrid Model. In Proceedings of the International Conference on Recent Advances in Artificial Intelligence for Sustainable Development (RAISD 2025. Advances in Intelligent Systems and Research 196, 96-108, Atlantis Press, Springer Nature.
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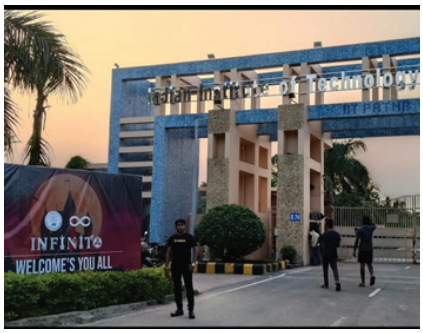
STUDENTS' ACHIEVEMENT

Students Completed DRDO Internship

Two students from the B.Tech CSE program, Karrn Kumar and Swati Sourabh, successfully completed their internship at the Defence Electronics Applications Laboratory (DEAL), DRDO, Dehradun. During the internship, they gained valuable exposure to defence communication technologies and research-oriented work environments. The experience enhanced their technical understanding and provided insights into real-world applications in the defence sector. This achievement reflects the department's focus on industry and research-driven learning opportunities for students.

MCA Student Participated in AI & ML Workshop at IIT Patna



Ashish Kumar from the MCA program participated in the AI & Machine Learning workshop held at IIT Patna in collaboration with Ethical Edufabrica Pvt. Ltd. as part of Infinito'25. The workshop provided hands-on learning experiences and valuable insights into emerging trends in AI and data science. His participation enhanced his technical skills and exposure to advanced concepts in the field.

BCA Student Selected as State-Level NSS Volunteer

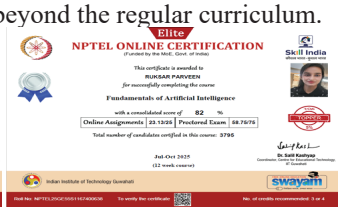
Samriddhi Kumari from the BCA program was selected as a State-Level NSS Volunteer, reflecting her leadership, discipline, and commitment to nation-building. Her achievement highlights the spirit of service and social responsibility encouraged among students of the department.

B.Tech CSE Student Excels in Hockey at State and National Levels

MD Aariz from the B.Tech CSE program delivered an outstanding performance in hockey across multiple levels of competition. He won gold medals at the inter-area level in Ramgarh, the district level in Ranchi, and the state level in Jamshedpur. Owing to his consistent performance, he was selected as the captain of the Jharkhand team and represented the state at the national level in Delhi, where he secured a silver medal. His achievement reflects exceptional sportsmanship, leadership, and dedication.

Students Achieved Top 5% in NPTEL AI Course

Sonal Kumari and Ruksar Parveen secured positions among the top 5% performers in the NPTEL examination on Fundamentals of Artificial Intelligence. Their achievement reflected strong conceptual understanding and dedication to learning emerging technologies in the field of AI. It also showcased their commitment to academic excellence and continuous skill development beyond the regular curriculum.



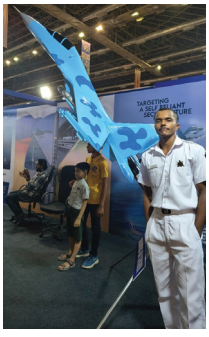
Student Secures Top 5% in NPTEL Course

Karrn Kumar achieved a position among the top 5% performers in the NPTEL course Integrated Waste Management for Smart City. His accomplishment reflected strong academic commitment and interdisciplinary learning in areas related to sustainability and smart city development.

B.Tech CSE Student Represents Bihar–Jharkhand at Air Force Academy

Ujjwal Singh from the B.Tech CSE program had the proud honour of representing Bihar and Jharkhand at the Air Force Academy, Hyderabad. The experience proved transformative, helping him develop leadership skills, teamwork, and discipline while interacting with trainee cadets from across the country. Exposure to multiple Indian Air Force aircraft further inspired his admiration for the service and enriched his overall outlook.

B.Tech CSE Student Represents NCC at National Camps



Indrajeet Saw, a student of B.Tech CSE and member of the 1 Jharkhand Naval Unit NCC, Ranchi, participated in the AINSC 2025 National Camp. He was also selected for the AITC (All India Trekking Camp) 2025, reflecting his dedication, discipline, and active involvement in NCC activities at the national level.

B.Tech CSE Student Participates in NCC National and State Camps

Akant Kumar, a student of B.Tech CSE and member of the 1 Jharkhand Naval Unit NCC, Ranchi, attended the Ship Attachment Camp 2025 at the national level. He was also selected for the PRE-RDC 2025 state-level camp, reflecting his discipline, dedication, and active participation in NCC activities.

B.Tech CSE Student Participated in NSS National Integration Camp

Prakash Kumar from the B.Tech CSE program participated in the NSS National Integration Camp held in Hisar, Haryana. The camp provided valuable exposure to leadership, social responsibility, discipline, teamwork, and cultural values. His participation reflected active involvement in nation-building and character-development activities beyond academics.

IETE Student Forum Chapter Established

The IETE Student Forum (ISF) chapter was successfully established in the Department of CSE & IT. This initiative aimed to promote technical knowledge, innovation, and professional development among students through workshops, seminars, and industry-oriented activities in collaboration with the Institution of Electronics and Telecommunication Engineers (IETE). The chapter will provide a platform for students to engage in technical events, competitions, and networking opportunities with industry experts. It will also help bridge the gap between academic learning and real-world technological advancements.

CSE & IT Teams Shine in Inter-Department Sports

The Department of CSE & IT secured the runner-up position in both the Inter-Department Volleyball and Football Championships. The teams demonstrated excellent coordination, determination, and sportsmanship throughout the competitions. Their consistent performance and teamwork

enabled them to reach the finals in both events. This achievement reflected the department's active participation in sports and its commitment to the holistic development of students beyond academics.

B.Tech CSE Student Secures 2nd Position in National-Level Quiz

Ankit Kumar Sahu from the B.Tech CSE program secured the 2nd position in the National-Level Quiz held on the occasion of World Standards Day 2025, organized by the Bureau of Indian Standards (BIS). His

achievement was recognized with a cash prize of ₹5,000, reflecting his knowledge, preparation, and competitive spirit at the national level.

B.Tech CSE Student Receives S.R. Ranganathan Best Library User Award

Zeenat Parween from the B.Tech CSE program was honored with the S.R. Ranganathan Best Library User Award for the academic session 2024–2025. The award recognized her consistent use of library resources and dedication to academic learning and research. Her achievement reflected a strong reading habit and commitment to academic excellence. It also highlighted the department's emphasis on knowledge-driven learning and effective utilization of library facilities.

STUDENT RESEARCH CONTRIBUTION- FALL 2025

The Department of CSE & IT recorded a significant academic milestone during the Fall 2025 semester, with 54 students successfully publishing their research papers in various peer-reviewed international journals. The publications covered diverse and emerging areas such as Artificial Intelligence, Machine Learning, IoT, digital security, smart health systems, climate-smart farming, and ethical AI. This achievement reflects the department's strong emphasis on research-oriented learning, innovation, and practical application of technical knowledge among students.

PUBLICATIONS

Sl. No.	Title of paper	Name of the author/s	Name of journal	ISSN number
1	Smart Pocket: A Machine Learning–Based Expense Tracker and Spending Predictor	Bindeshwar Mahto	INTERNATIONAL JOURNAL OF RESEARCH AND INNOVATION IN APPLIED SCIENCE (IJRIAS), Volume X Issue XI November 2025	2454-6194
2	Smart Pocket: A Machine Learning–Based Expense Tracker and Spending Predictor	Anurag Kumar Varma	INTERNATIONAL JOURNAL OF RESEARCH AND INNOVATION IN APPLIED SCIENCE (IJRIAS), Volume X Issue XI November 2025	2454-6194
3	Smart Pocket: A Machine Learning–Based Expense Tracker and Spending Predictor	Sonal Kumari	INTERNATIONAL JOURNAL OF RESEARCH AND INNOVATION IN APPLIED SCIENCE (IJRIAS), Volume X Issue XI November 2025	2454-6194
4	Smart Pocket: A Machine Learning–Based Expense Tracker and Spending Predictor	Ruksar Parveen	INTERNATIONAL JOURNAL OF RESEARCH AND INNOVATION IN APPLIED SCIENCE (IJRIAS), Volume X Issue XI November 2025	2454-6194
5	Smart Pocket: A Machine Learning–Based Expense Tracker and Spending Predictor	Chahat Firdous	INTERNATIONAL JOURNAL OF RESEARCH AND INNOVATION IN APPLIED SCIENCE (IJRIAS), Volume X Issue XI November 2025	2454-6194
6	Ethicruit: A Framework for Designing Ethical AI Systems in Employment and Recruitment Processes	Nivedita Singh	INTERNATIONAL JOURNAL OF RESEARCH AND INNOVATION IN APPLIED SCIENCE (IJRIAS), Volume X Issue XI November 2025	2454-6194
7	Ethicruit: A Framework for Designing Ethical AI Systems in Employment and Recruitment Processes	Deepak Kumar	INTERNATIONAL JOURNAL OF RESEARCH AND INNOVATION IN APPLIED SCIENCE (IJRIAS), Volume X Issue XI November 2025	2454-6194
8	Ethicruit: A Framework for Designing Ethical AI Systems in Employment and Recruitment Processes	Rohit Kumar Das	INTERNATIONAL JOURNAL OF RESEARCH AND INNOVATION IN APPLIED SCIENCE (IJRIAS), Volume X Issue XI November 2025	2454-6194
9	Biometric Authentication Revolution: The Role of AI and UIDAI in Digital Payments	Karrn Kumar	International Journal of Research in Interdisciplinary Studies Volume 3, Issue 12, December 2025	2584-1017
10	Biometric Authentication Revolution: The Role of AI and UIDAI in Digital Payments	Swati Kumari	International Journal of Research in Interdisciplinary Studies Volume 3, Issue 12, December 2025	2584-1017
11	Biometric Authentication Revolution: The Role of AI and UIDAI in Digital Payments	Ashok Kumar	International Journal of Research in Interdisciplinary Studies Volume 3, Issue 12, December 2025	2584-1017

12	Biometric Authentication Revolution: The Role of AI and UIDAI in Digital Payments	Chandan Kumar	International Journal of Research in Interdisciplinary Studies Volume 3, Issue 12, December 2025	2584-1017
13	Biometric Authentication Revolution: The Role of AI and UIDAI in Digital Payments	Priya Kumari	International Journal of Research in Interdisciplinary Studies Volume 3, Issue 12, December 2025	2584-1017
14	Design and Implementation of an Intelligent Edge-IoT Based Waste Segregation System for Urban Residential Complexes	Ankit Kumar Sahu	International Journal for Multidisciplinary Research (IJFMR), Volume 7, Issue 6, November-December 2025	2582-2160
15	Design and Implementation of an Intelligent Edge-IoT Based Waste Segregation System for Urban Residential Complexes	Raj Kumar Vishwakarma	International Journal for Multidisciplinary Research (IJFMR), Volume 7, Issue 6, November-December 2025	2582-2160
16	Design and Implementation of an Intelligent Edge-IoT Based Waste Segregation System for Urban Residential Complexes	Ranjan Raj	International Journal for Multidisciplinary Research (IJFMR), Volume 7, Issue 6, November-December 2025	2582-2160
17	Fake News Detection Using Machine Learning and Artificial Intelligence	Pranav Kumar	IJNRD – International Journal of Novel Research and Development, Volume 10, Issue 12, December 2025	2456-4184
18	Fake News Detection Using Machine Learning and Artificial Intelligence	Raj Kumar Vishwakarma	IJNRD – International Journal of Novel Research and Development, Volume 10, Issue 12, December 2025	2456-4184
19	Fake News Detection Using Machine Learning and Artificial Intelligence	Sumit Kumar	IJNRD – International Journal of Novel Research and Development, Volume 10, Issue 12, December 2025	2456-4184
20	Fake News Detection Using Machine Learning and Artificial Intelligence	Pankaj Vishwakarma	IJNRD – International Journal of Novel Research and Development, Volume 10, Issue 12, December 2025	2456-4184
21	IoT and AI Integration for ClimateSmart Farming: A Predictive and Adaptive System for Smallholder Farmers	Bindeshwar Mahto	International Journal of Research in Interdisciplinary Studies, Volume 3, Issue 12, December 2025	2584-1017
22	IoT and AI Integration for ClimateSmart Farming: A Predictive and Adaptive System for Smallholder Farmers	Rohit Kumar Rana	International Journal of Research in Interdisciplinary Studies, Volume 3, Issue 12, December 2025	2584-1017
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24	IoT and AI Integration for ClimateSmart Farming: A Predictive and Adaptive System for Smallholder Farmers	Mithun Kumar	International Journal of Research in Interdisciplinary Studies, Volume 3, Issue 12, December 2025	2584-1017
25	IoT and AI Integration for ClimateSmart Farming: A Predictive and Adaptive System for Smallholder Farmers	Ankita Kumari Das	International Journal of Research in Interdisciplinary Studies, Volume 3, Issue 12, December 2025	2584-1017
26	IoT and AI Integration for ClimateSmart Farming: A Predictive and Adaptive System for Smallholder Farmers	Kumar Mayank	International Journal of Research in Interdisciplinary Studies, Volume 3, Issue 12, December 2025	2584-1017
27	IoT and AI Integration for ClimateSmart Farming: A Predictive and Adaptive System for Smallholder Farmers	Mithlesh Kumar Mahto	International Journal of Research in Interdisciplinary Studies, Volume 3, Issue 12, December 2025	2584-1017
28	Leveraging AI and RT-PCR for Enhanced Diagnosis and Management of COVID-19	Md. AftabAnsari	International Journal of Science and Engineering Applications, Volume 14-Issue 12, 66 - 76, 2025	2319 - 7560
29	Leveraging AI and RT-PCR for Enhanced Diagnosis and Management of COVID-19	Nandani Kumari	International Journal of Science and Engineering Applications, Volume 14-Issue 12, 66 - 76, 2025	2319 - 7560
30	Leveraging AI and RT-PCR for Enhanced Diagnosis and Management of COVID-19	Vishal Kumar Yadav	International Journal of Science and Engineering Applications, Volume 14-Issue 12, 66 - 76, 2025	2319 - 7560
31	Leveraging AI and RT-PCR for Enhanced Diagnosis and Management of COVID-19	Muskan Kumari	International Journal of Science and Engineering Applications, Volume 14-Issue 12, 66 - 76, 2025	2319 - 7560
32	Leveraging AI and RT-PCR for Enhanced Diagnosis and Management of COVID-19	Dhananjay Kumar	International Journal of Science and Engineering Applications, Volume 14-Issue 12, 66 - 76, 2025	2319 - 7560

33	A Dual-Layer Verification Framework for Efficient Digital Voting System Based on Facial Detection	Kriti Sharma	International Journal of Science and Engineering Applications, Volume 14-Issue 12, 77 - 80, 2025	2319 - 7560
34	A Dual-Layer Verification Framework for Efficient Digital Voting System Based on Facial Detection	Mukesh Kumar	International Journal of Science and Engineering Applications, Volume 14-Issue 12, 77 - 80, 2025	2319 - 7560
35	A Dual-Layer Verification Framework for Efficient Digital Voting System Based on Facial Detection	Md. Eliyas Ansari	International Journal of Science and Engineering Applications, Volume 14-Issue 12, 77 - 80, 2025	2319 - 7560
36	A Dual-Layer Verification Framework for Efficient Digital Voting System Based on Facial Detection	Jaya kumari	International Journal of Science and Engineering Applications, Volume 14-Issue 12, 77 - 80, 2025	2319 - 7560
37	A Dual-Layer Verification Framework for Efficient Digital Voting System Based on Facial Detection	Kajal Kumari	International Journal of Science and Engineering Applications, Volume 14-Issue 12, 77 - 80, 2025	2319 - 7560
38	A Study on The Business Model of a Proposed Online Food Delivery Platform	Shreya Srivastava	International Journal of Science and Engineering Applications, Volume 14-Issue 12, 92 - 95, 2025	2319 - 7560
39	A Study on The Business Model of a Proposed Online Food Delivery Platform	Sakshi Kumari	International Journal of Science and Engineering Applications, Volume 14-Issue 12, 92 - 95, 2025	2319 - 7560
40	A Study on The Business Model of a Proposed Online Food Delivery Platform	Santosh Kumar Mandal	International Journal of Science and Engineering Applications, Volume 14-Issue 12, 92 - 95, 2025	2319 - 7560
41	A Study on The Business Model of a Proposed Online Food Delivery Platform	Aman Kumar	International Journal of Science and Engineering Applications, Volume 14-Issue 12, 92 - 95, 2025	2319 - 7560
42	Health-Mate: An AI-Powered Smart Health Consultant for Early Disease Prediction and Lifestyle Assistance	Abhay Ram	Journal of Emerging Technologies and Innovative Research, November 2025, Volume 12, Issue 11	2349-5162
43	Health-Mate: An AI-Powered Smart Health Consultant for Early Disease Prediction and Lifestyle Assistance	Biswajit Senapati	Journal of Emerging Technologies and Innovative Research, November 2025, Volume 12, Issue 11	2349-5162
44	Health-Mate: An AI-Powered Smart Health Consultant for Early Disease Prediction and Lifestyle Assistance	Sarwesh Kumar Sinha	Journal of Emerging Technologies and Innovative Research, November 2025, Volume 12, Issue 11	2349-5162
45	Health-Mate: An AI-Powered Smart Health Consultant for Early Disease Prediction and Lifestyle Assistance	Babulal Mahto	Journal of Emerging Technologies and Innovative Research, November 2025, Volume 12, Issue 11	2349-5162
46	Leveraging Multi-Model Learning for Reliable Mental Health Estimation	Md Jishan	Journal of Emerging Technologies and Innovative Research, November 2025, Volume 12, Issue 11	2349-5162
47	Leveraging Multi-Model Learning for Reliable Mental Health Estimation	Sadab Ansari	Journal of Emerging Technologies and Innovative Research, November 2025, Volume 12, Issue 11	2349-5162
48	Leveraging Multi-Model Learning for Reliable Mental Health Estimation	Gopal Kumar	Journal of Emerging Technologies and Innovative Research, November 2025, Volume 12, Issue 11	2349-5162
49	Leveraging Multi-Model Learning for Reliable Mental Health Estimation	Alfiya Parveen	Journal of Emerging Technologies and Innovative Research, November 2025, Volume 12, Issue 11	2349-5162
50	Design And Evaluation Of Foodsense Ai For Customized Dietary Guidance	Himanshu Sharma	Journal of Emerging Technologies and Innovative Research, November 2025, Volume 12, Issue 11	2349-5162
51	Design And Evaluation Of Foodsense Ai For Customized Dietary Guidance	Ravi Shankar	Journal of Emerging Technologies and Innovative Research, November 2025, Volume 12, Issue 11	2349-5162
52	Design And Evaluation Of Foodsense Ai For Customized Dietary Guidance	Shivam Kumar Saw	Journal of Emerging Technologies and Innovative Research, November 2025, Volume 12, Issue 11	2349-5162
53	Next-Generation Iot-Enabled Vending Systems: A Scalable Architecture For Predictive Operations And Self-Monitoring	Ranjit Kumar	Journal of Emerging Technologies and Innovative Research, December 2025, Volume 12, Issue 12	2349-5162
54	Next-Generation Iot-Enabled Vending Systems: A Scalable Architecture For Predictive Operations And Self-Monitoring	Kamlesh Rawani	Journal of Emerging Technologies and Innovative Research, December 2025, Volume 12, Issue 12	2349-5162

Editor's Message

It gives me immense pleasure to present the first edition of **"PROUDYOGAM"**, biannual newsletter of the Faculty of Computer Science Engineering & Information Technology. This inaugural edition marks an important milestone in documenting the academic, research, and co-curricular achievements of our department. The newsletter aims to showcase the vibrant, innovative initiatives, and accomplishments of students and faculty members over the past few months.

The Faculty of CSE & IT has always focused on academic excellence, industry collaboration, research, innovation, and entrepreneurship. Through workshops, expert talks, MoUs, startup initiatives, placement drives, and student-led activities, we strive to create a dynamic learning environment that prepares students for real-world challenges. This newsletter is a reflection of those collective efforts and achievements.

I sincerely thank all the faculty members, students, and contributors who have supported this initiative and helped in bringing out this first edition. I hope this newsletter will serve as a platform to celebrate our successes, share knowledge, and inspire greater accomplishments in the future.

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