

ARTIFICIAL INTELIGENCE AND MACHINE LEARNING



AIML Monthly Newsletter: 01-09-25 to 30-09-25



1 Department Activities

1.1 Swachhata Pakhwada 2025 – Cleanathon by AI/ML Department

As part of the UGC's Swachhata Pakhwada 2025 initiative, the AI/ML Department, SOE, organized a Cleanathon on 18th September 2025 at the University's sports complex (Cricket Stadium, Badminton Court, and Volleyball Court). The drive was coordinated by **Dr. Sumit Kr. Yadav**. The drive, conducted through the NSS unit, saw the active participation of 191 members including faculty, NSS volunteers, and second- and third-year students.



The event focused on promoting cleanliness, hygiene, and sustainable practices while instilling responsibility, teamwork, and discipline among students. Divided into three teams, participants cleaned litter, segregated waste, and improved the usability of sports facilities. Posters and

awareness campaigns further highlighted the importance of Swachh Bharat Abhiyan values.



The initiative not only enhanced the environment of the sports complex but also set an inspiring example of collective responsibility and campus sustainability.

2 Student activities

2.1 **Manyashree D, a 3rd-year student of CSE (AIML)**, recently attended the prestigious Bootcamp on “Fundamentals of Drone Systems and AI/ML for Drone Vision”, organized by the Center for Drone Applications, IIT Goa, and funded by #MeitY, Govt. of India.

During this intensive program, she gained valuable insights into:

- ◊ Drone Fundamentals – flight dynamics, control systems, and UAV architecture.
- ◊ AI/ML Applications in Drones – computer vision for object detection, navigation, and real-time decision-making.
- ◊ Drone Ecosystem & Emerging Use Cases – agriculture, disaster management, surveillance, and delivery systems.
- ◊ Hands-on Knowledge – leveraging data-driven innovation to enhance unmanned aircraft systems.



This experience has not only strengthened her technical foundation but also ignited her passion to explore innovative AI-driven solutions for drone-related projects.

2.2 **Nandeesh N B Vade-Gopal**, student of section 5-B, Computer Science and Engineering -AI & ML , has received a Certificate of Achievement for securing Third place in the "AI in Healthcare" domain at the UDAYA 1.0

Intra-DSI Hackathon. The event was organized by the Department of Computer Science & Design, Dayananda Sagar College of Engineering, in association with DERBI Foundation, Sagar Hospitals, and IEEE-DSCE Students Branch, and was held on 27th September 2025.



3 Faculty activities & Achievements #36

- 3.1 The Workshop on Digital Logic Design, organized by **Dr. S.V.K.R. Rajeswari**, Department of Computer Science and Engineering (AI & ML), Dayananda Sagar University, was conducted from 2nd September to 12th September 2025. The theory sessions of the workshop were skillfully delivered by Dr. Abdul Haq Nalband, Associate Professor, Dept. of CSE (AI & ML), during regular class hours in the ESD classrooms.

These sessions were designed to provide students with a strong conceptual foundation in digital logic fundamentals. Topics included number systems, Boolean algebra, logic gates, combinational and sequential circuits, and their applications in computing systems. By combining theory with real-world examples, Dr. Nalband ensured that students could connect

fundamental principles with practical applications in modern digital design.

Dayananda Sagar University
School of Engineering
 Department of Computer Science & Engineering
 (Artificial Intelligence & Machine Learning)

WORKSHOP ON
DIGITAL LOGIC DESIGN

A hands-on 2 week workshop designed to provide in-depth knowledge and practical skills in Digital Logic Design
 Fundamentals (for 1st Year CSE - AI & ML students)

Date & Duration:
 2nd September 2025 - 12th September 2025

Venue:
 Theory Sessions: ESD class hours
 Practical Sessions: Labs 508 & 509 during lab hours

Organizer:
 Dr. S.V.K.R. Raghav
 Assistant Professor, Dept. of CSE (AI & ML)

Distinguished Resource Person:
 Dr. Abdul Haq Halband
 Associate Professor, Dept. of CSE (AI & ML)

Theory Sessions
 Delivered by: Dr. Abdul Haq Halband

Date	Time	Participants	Faculty Coordinator
02-09-2025	1:45 PM - 2:45 PM	8-A Students	Dr. S.V.K.R. Raghav
03-09-2025	8:30 AM - 9:30 AM	8-B Students	Dr. Prateek Verma
04-09-2025	1:45 PM - 2:45 PM	8-C Students	Prof. Govind Kumar Pandey
05-09-2025	8:30 AM - 11:45 AM	8-D Students	Dr. Mude Nagarajuna Naik
06-09-2025	8:30 PM - 11:30 PM	8-E Students	Dr. Shirshendu Roy & Dr. S.V.K.R. Raghav

Practical Sessions
 Labs 508 & 509

Date	Time	Participants	Resource Person
02-09-2025	10:30 AM - 12:30 PM	8-A Students	Dr. Shirshendu Roy
03-09-2025	10:30 AM - 12:30 PM	8-B Students	Dr. Shirshendu Roy
04-09-2025	10:30 AM - 12:30 PM	8-C Students	Dr. Shirshendu Roy
05-09-2025	10:30 AM - 12:30 PM	8-D Students	Dr. Shirshendu Roy
06-09-2025	10:30 AM - 12:30 PM	8-E Students	Dr. Shirshendu Roy

Chief Patrons
 Dr. H. Hemachandra Sagar, Chancellor, DSU
 Dr. D. Premachandra Sagar, Pro-Chancellor, DSU

Patrons
 B.S. Satyanarayana, Vice-Chancellor in-charge, DSU
 Dr. Prakash S. Pro-Vice-Chancellor, DSU
 Dr. Perumadappa C. Registrar, DSU
 Dr. Udaya Kumar Reddy, Dean, DSU

Convenor & Organizers
 Convenor: Dr. Jayashree Vinodanayam V., Professor
 Chairperson, Dept. of CSE (AI & ML)
 Organizer: Dr. S.V.K.R. Raghav, Assistant Professor, Dept. of CSE (AI & ML)

The workshop was further strengthened by the active involvement of the **Dr. Prateek Verma, Prof. Govind Kumar Pandey, Dr. Mude Nagarajuna Naik, and Dr. Shirshendu Roy**, who regularly handle the ESD subject. Their assistance and coordination played a vital role in guiding students and ensuring smooth execution of the sessions. The collaboration between the resource faculty and coordinators created an engaging learning environment that encouraged interaction and deeper understanding of core concepts.

Through these sessions, students gained not only theoretical clarity but also the confidence to apply their learning in the practical sessions that followed next week i.e., from 08/09/2025. The workshop successfully achieved its aim of bridging academic concepts with applied knowledge, preparing students to tackle advanced topics in digital systems with Confidence .

3.2 The Hands-on workshop on Digital Logic Design, organized by **Dr. S.V.K.R. Rajeswari**, Department of Computer Science and Engineering (AI & ML), Dayananda Sagar University, was conducted from 8th September to 12th September 2025. The practical sessions of the workshop were skillfully delivered by **Associate professors - Dr. Abdul Haq Nalband**, Dr. Mude Nagarjuna Naik ,**and Dr. Prateek Verma along with Assistant professors - Dr. S V K R Rajeswari, Dr. Sumit Kumar Yadav , Dr. Sugandha Saxena ,Govind Kumar Pandey ,Hairunesa Beevi, Partha Portim Sen ,Souvik Ghosh , Tejal Khade , Sahil Poker , Pradeep Kumar , Amritha Kundu , Upasana Shil , R Nivetha ,Sriram Kumar , and Sarang Mohrir** of CSE- (AI & ML) during regular lab hours in the 508 and 509 labs.



Lab Schedule Summary (8th – 12th Sept 2025):

On 8th September 2025

- Section III-A (8:30 AM – 10:20 AM)

Resource Persons: Dr. S.V.K.R. Rajeswari, Dr. Mude Nagarjuna Naik, Ms. Hairuneesa Beevi



Resource Persons: Dr. Abdul Haq Nalband, Prof. Partha Protim Sen



9th September 2025

- Section III-B (8:30 AM – 10:20 AM)

Resource Persons: Dr. S.V.K.R. Rajeswari, Mr. Suman Kumar Yadav,
Prof. Tejal Khade



Resource Persons: Prof. Pradeep Kumar P, Prof. Sahil Pocker, Prof. Amritha Kundu



- Section III-E (10:45 AM – 12:35 PM)

Resource Persons: Prof. Govind Kumar Pandey, Dr. Abdul Haq Nalband, Prof. Hairuneesa Beevi



Resource Persons: Prof. Upasana Shil, Dr.Prateek Verma, Dr.Sugandha Saxena



11th September 2025

- Section III-C (02:40 PM – 04:20 PM)

Resource Persons: Prof. Sahil Poker, Prof.Partha Protim, Prof. Govind Kumar Pandey



Resource Persons: Prof.Pradeep Kumar, Prof.R.Nivetha, Dr.Sumit Kumar Yadav



12th September 2025

- Section III-D (08:30 AM – 10:20 AM)

Resource Persons: Dr.Prateek Verma, Dr. Abdul Haq Nalband, Prof.Hairuneesa Beevi



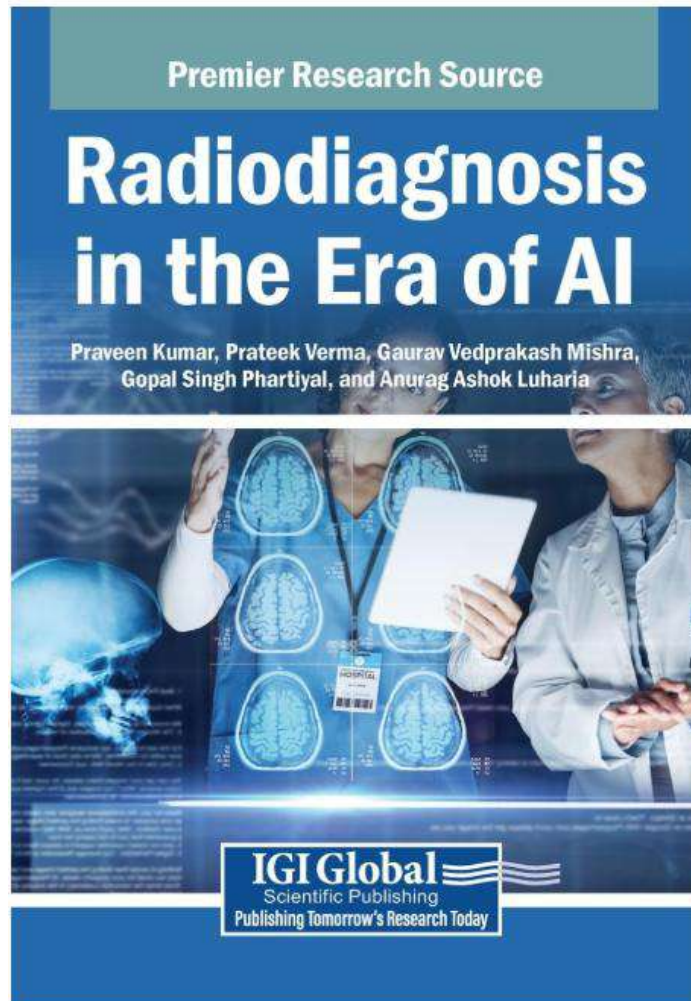
Resource Persons: Dr. Mude Nagarjuna Naik, Prof.Sarang Mohrir



3.3 **Dr. S.V.K.R.Rajeswari**, Assistant Professor from CSE (AI & ML) has received a Certificate of Appreciation for serving as a Reviewer at the 6th IEEE INDISCON 2025. The conference was organized by the IEEE Rourkela Subsection and IEEE India Council, and it took place at NIT Rourkela, Odisha, India, from 21st to 23rd August 2025.

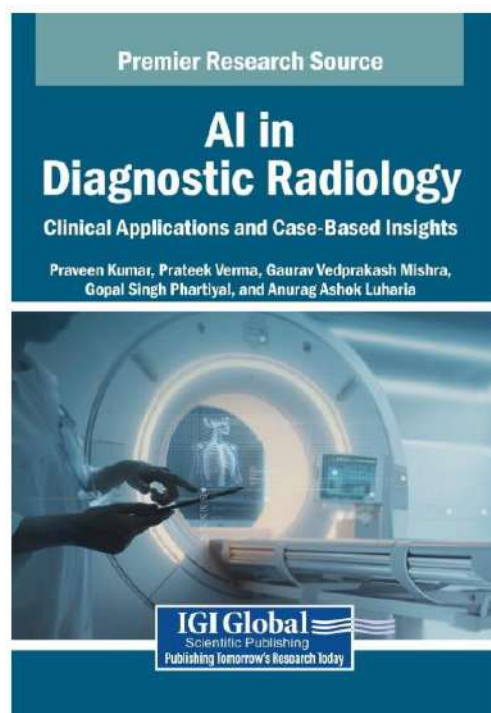


- 3.4 **Dr. Prateek Verma**, Associate Professor, from CSE (AI & ML) has co-edited the Scopus indexed book “Radiodiagnosis in the era of AI” discussing important and relevant topics of the integration of AI in radiodiagnosis that can make a transformative shift in medical imaging and diagnostic precision. In today’s era, Machine learning and Artificial Intelligence algorithms can be harnessed to enhance image interpretation, workflows, and diagnostic accuracy. The book covers topics such as AI, medical imaging, diagnostics and is an excellent resource for researchers, academicians, medical practitioners, hospital administrators, and more. The link to the book can be found at <https://www.scopus.com/pages/publications/105013936827>



3.5 **Dr. Prateek Verma**, Associate Professor, from CSE (AI & ML) has co-edited the Scopus indexed book “AI in diagnostic radiology: Clinical applications and case-based insights” providing insights about the AI models applicable to real-world areas like chest X-ray analysis, mammography, CT and MRI interpretation, and triage in emergency imaging. Case-based insights demonstrate how AI assists in early disease detection, supports differential diagnosis, and reduces diagnostic errors, contributing to better patient outcomes. However, effective clinical integration requires careful validation, consideration of ethical implications, and collaboration between radiologists and AI developers to ensure technology works with, rather than replaces, human expertise. This book covers topics such as medical detection, deep learning, and

radiology, and is a useful resource for medical professionals, computer engineers, academicians, researchers, and scientists. The link to the book can be found at <https://www.scopus.com/pages/publications/105012911111>



3.6



Dr. Jayavrinda Vrindavanam, Professor and Head of the Department, CSE-AI & ML delivered an engaging masterclass on “AI: The Future of Healthcare” for MBBS students as part of the ASCENTIA Program, organized by CDSIMER.

The session highlighted:

- The evolving role of AI in modern healthcare delivery systems
- Cutting-edge applications of AI in Neurology
- Real-world case studies from ongoing AI healthcare research
- Ethical and practical challenges of implementing AI in clinical practice



The talk offered students valuable insights into how AI is shaping the future of medicine and patient care.

3.7 **Dr. Rajeswari Satuluri**, Assistant Professor, Department of CSE-AI & ML, Dayananda Sagar University, received a Certificate of Appreciation for her valuable contribution as a Reviewer at the 6th IEEE INDISCON 2025. The conference, organized by the IEEE Rourkela Subsection and IEEE India Council, was held at NIT Rourkela, Odisha, from 21st to 23rd August 2025. Her involvement highlights the department's commitment to academic excellence, research, and professional engagement with leading international forums.



3.8 **Prof. Anubrata Singharoy**, Assistant Professor, Department of CSE - AI&ML, successfully completed the Faculty Development Program on "Artificial Intelligence and Computer Vision" conducted by C-DAC Hyderabad under the Electronics & ICT Academy Scheme Phase II, supported by the Ministry of Electronics & Information Technology,

Government of India, held from 8th to 12th September 2025, organized by the Centre for Development of Advanced Computing (C-DAC), Hyderabad.



3.9 **Dr. Joshuva Arockia Dhanraj**, Professor, CSE (AI&ML), SoE, Dayananda Sagar University, has successfully completed the AICTE Training and Learning (ATAL) Academy Faculty Development Programme on “Emerging Technologies and Trends of Future Energy–2030”. This FDP was organized by St. Joseph’s College of Engineering and Technology from 15th to 20th September 2025. The program was conducted under the guidance of the All India Council for Technical Education (AICTE), New Delhi, with Dr. Sunil Luthra (Director & Bureau Head, Training and Learning Bureau, AICTE) overseeing the initiative. The coordinator was K. R. Kavitha, Assistant Professor, who facilitated the sessions. This FDP aimed at enhancing faculty knowledge and research orientation in sustainable and futuristic energy technologies.



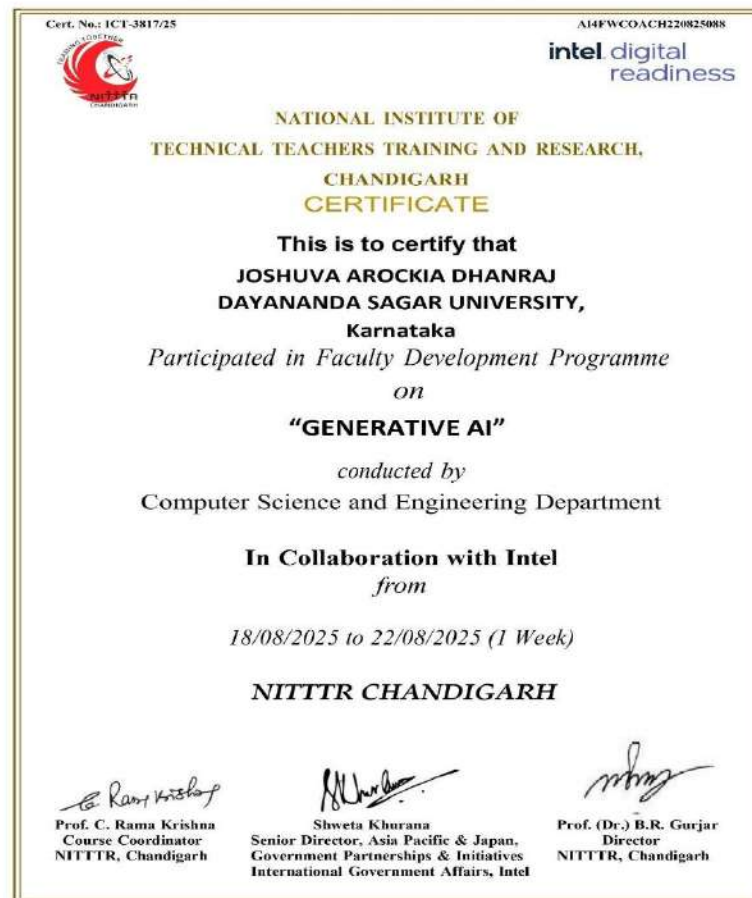
3.10



Dr. Joshuva Arockia Dhanraj, Professor, CSE (AI&ML), SoE, Dayananda Sagar University has participated in a Three-Day International Virtual Faculty Development Programme on “Modern Research Toolkit: AI Reviews, Mendeley & Mixed Method Approach”, held from 1st to 3rd September 2025. The FDP was organized by the Department of Commerce, Saveetha School of Law (SIMATS). The event was led by Prof. Dr. Asha Sundaram (Principal, SSL), Dr. Jayamala C (HoD, Department of

Commerce), and coordinated by Dr. Meenakshi N. The FDP sessions were delivered by eminent experts focusing on modern AI-based research methodologies, effective referencing with Mendeley, and mixed-method approaches for academic research.

3.11



Dr. Joshuva Arockia Dhanraj, Professor, CSE (AI&ML), SoE, Dayananda Sagar University, has attended a one-week Faculty Development Programme on “Generative AI” organized by the National Institute of Technical Teachers Training and Research (NITTTR), Chandigarh from 18th to 22nd August 2025. The FDP was conducted by the Department of Computer Science and Engineering in collaboration with Intel. The program was coordinated by Prof. C. Rama Krishna (NITTTR), with strategic insights from Shweta Khurana (Senior Director, Asia Pacific &

Japan, Government Partnerships & Initiatives, Intel) and Prof. (Dr.) B.R. Gurjar, Director, NITTTR Chandigarh. The FDP explored generative AI models, frameworks, and practical applications, fostering AI-driven teaching and research methodologies.

3.12 Between 1st and 29th September 2025, Dr. **Joshuva Arockia Dhanraj**, Professor, CSE (AI&ML), SoE, Dayananda Sagar University has actively contributed to the academic research community as a reviewer for Elsevier journals. During this period, he reviewed 20 manuscripts across 12 different journals. These included reputed journals such as Applied Energy, Energy Reports, Computers & Industrial Engineering, Engineering Applications of Artificial Intelligence, Measurement, and Sustainable Energy Technologies and Assessments. This demonstrates his expertise in multidisciplinary domains such as energy, AI, and sustainability, strengthening the peer-review ecosystem.

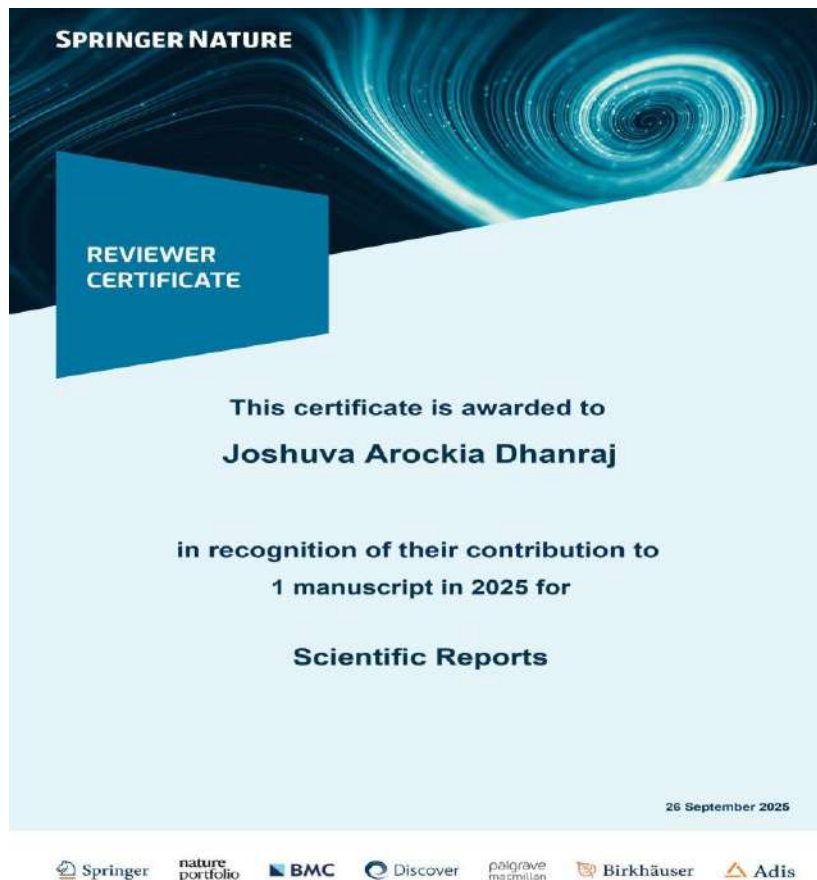
	Review History Report Joshuva Arockia Dhanraj	
From: 1 September 2025 To: 29 September 2025 All dates in GMT		
	Environmental and Sustainability Indicators	1
	Franklin Open	1
	Measurement	3
	Polyhedron	1
	Sustainable Energy Technologies and Assessments	1

3.13 **Dr. Joshuva Arockia Dhanraj**, Professor, CSE (AI&ML), SoE, Dayananda Sagar University has received recognition for his contribution as a reviewer for the journal Discover Applied Sciences on 9th September 2025. This certificate highlights his valuable role in maintaining the quality and integrity of scientific publishing by critically evaluating a manuscript in 2025. Such contributions uphold the journal's standards in applied science research.



3.14 On 26th September 2025, **Dr. Joshuva Arockia Dhanraj**, Professor, CSE (AI&ML), SoE, Dayananda Sagar University was acknowledged for his reviewer contribution to Scientific Reports, a reputed international

journal. The certificate was issued in recognition of his critical evaluation of a submitted manuscript in 2025. This acknowledgment signifies his role in supporting the scientific community by ensuring the quality and credibility of research publications in a multidisciplinary context.



3.15 **Dr. Joshuva Arockia Dhanraj**, Professor, CSE (AI&ML), SoE, Dayananda Sagar University, was recognized in the Stanford University Global Ranking of Top 2% Scientists for the year 2025, based on the Elsevier-Scopus database. This achievement highlights his outstanding research contributions in the fields of Artificial Intelligence, Energy Systems, Robotics, and Sustainable Technologies. The ranking, curated annually by a team led by Prof. John Ioannidis (Stanford University), evaluates scientists worldwide based on standardized citation indicators including

total citations, h-index, co-authorship adjusted hm-index, and composite score. Securing a place in the world's top 2% scientists is a mark of global research excellence, reaffirming his impactful scholarly contributions and international recognition in advancing cutting-edge research and innovation.



3.16



Prof. Trupthi Rao, Assistant Professor, Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), has presented paper entitled “Enhancing Thyroid Disease Diagnosis through Deep Learning and Artificial Neural Network” in IEEE 4th International Conference for Advancement in Technology (ICONAT) 2025, during 19th to 21st September 2025.

3.17 **Prof. Trupthi Rao**, Assistant Professor, Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning), served as a Reviewer for the 2nd International Conference on Recent Developments in Electronics and Communication Systems (RDECS-2025) organized by the Département of ECE Engineering on 29th and 30th August 2025.

