ANURAG UNIVERSITY

SDG-9

INDUSTRY INNOVATION AND INFRASTRUCTURE 2025



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Executive Summary 2025

Industrial Exposure:

Anurag University strengthened industry exposure through industrial visits and expert interactions with organisations such as Infosys, Microsoft, RAP Motors and RDC Concrete. These initiatives provided students with exposure to industrial operations, emerging technologies and practical applications of classroom learning.

Research and Technological Exposure:

Students gained research-oriented exposure through visits to IIT Hyderabad, including its AI Data Center and TiHAN facilities. Technical sessions on OpenSTAAD, embedded systems, QNX and Pi-Square Technologies further introduced students to automation, real-time operating systems and advanced technological applications.

Innovation and Entrepreneurship:

BUILDATHON 2025 encouraged students to develop innovative solutions to real-world challenges. The event brought together 136 students across 34 teams from more than 20 institutions, with projects addressing smart cities, disaster resilience, sustainable transportation, waste management and other development priorities.

Sustainable Industrial Practices:

The visit to Rani Polymers provided students with an understanding of plastic manufacturing and recycling processes, highlighting the role of industrial practices in resource efficiency and sustainability.

Student Participation in Technology Events:

Students and NSS volunteers participated in initiatives such as the MALAI Club Hackathon, TECHXCELERATE and DRISHTI: Vision for Tomorrow. These activities encouraged technological awareness, teamwork and engagement with innovation-focused events.

Community Outreach and Technology Awareness:

Through initiatives such as TEJAS 2K25 and DRISHTI, the University extended its engagement beyond the campus by introducing school students to student projects, emerging technologies and practical applications of innovation.

Industrial Exposure

Anurag University regularly organizes industrial visits, expert interactions and institutional collaborations to familiarize students with contemporary industrial practices, emerging technologies and professional work environments.

Industrial Visit to Infosys Campus

Date: 30-10-2025
Time: 10.00 AM to 4.00 PM
Venue: Infosys Campus, Hyderabad No. of Participants: 100

Summary report on the event:

The Department of Information Technology, Anurag University, organized an "Industrial visit to Infosys Campus" program on 30th October 2025 as part of its industry-academia collaboration initiative. The primary aim of the visit was to provide industry exposure, career orientation, and an understanding of corporate work culture to the first-year MCA students. A total of 80 students from MCA I Year I Semester, accompanied by faculty members, visited the Infosys Hyderabad Campus. The visit was a valuable opportunity for students to interact with senior professionals and gain first-hand insights into industry operations and evolving technological trends.

Objectives of the Outreach Program

☐ To bridge the gap between classroom learning and industry expectations.

☐ To help students understand organizational structure, project management practices, and emerging technologies in the IT sector.

☐ To provide career guidance and discuss professional growth opportunities in the software industry.

☐ To inspire students through real-world examples and motivational talks by industry experts.

☐ To enhance students' understanding of corporate ethics, communication, and teamwork.

Event Overview

The outreach program was divided into two sessions—a forenoon session focusing on Industry Exploration and an afternoon session emphasizing Career Guidance and Skill Development.

Session I – Industry Exploration (FN Session)

The session began with a warm welcome by the Infosys HR Team, followed by an introduction to the company's legacy, global presence, and contributions to IT services and digital transformation. Senior professionals from the Software Development and Cloud Engineering teams gave a detailed walkthrough of:

Project lifecycle management at Infosys.

Role of software engineers and technical leads.

Exposure to modern technologies such as AI, Data Analytics, and Cloud Computing. Live demonstration of project tracking tools and workflow management.

Students were given a guided campus tour, including the innovation labs, training facilities, and collaborative workspaces, to understand how large-scale IT organizations function.

Session II – Career Guidance and Skill Development (AN Session)

In the post-lunch session, experienced professionals from Infosys delivered talks on career planning, employability skills, and interview readiness. The following topics were discussed in depth:

Essential technical and soft skills for fresh graduates.

Continuous learning through Infosys learning platforms (Lex, Springboard, etc.). Real-world project expectations and communication skills in IT teams.

The importance of certifications in areas like Cloud, AI, and Cyber security.

Students also interacted in a Q&A session, where they clarified doubts about internship opportunities, placement processes, and the importance of adapting to the fast-changing technology landscape.

Key Takeaways

Students gained a practical understanding of industry workflows and organizational structures.

The event enhanced awareness about career paths and skill-building strategies. Students were motivated to align their academic goals with professional competencies.

Exposure to Infosys' innovation-driven culture inspired students to pursue continuous learning and ethical professionalism.

Coordination and Acknowledgment

The visit was coordinated by Faculty members of Department of Information Technology along with club members who ensured smooth organization and student engagement throughout the day.

The Department extends heartfelt gratitude to Infosys Ltd., Hyderabad, for hosting the outreach program and providing students with an enriching and insightful experience.

Conclusion

The Outreach to Infosys was an impactful learning experience for MCA students, bridging the gap between theory and practice. The interaction with industry professionals enhanced students' understanding of workplace dynamics, teamwork, and the essential skills required for future IT careers.

Such initiatives strengthen industry-institute partnerships, paving the way for collaborative learning and professional excellence among budding technologists

Digital Documentation of the Event:







Industrial visit- Microsoft Hyderabad

Date: 13-12-2025

Time: 10 AM to 4 PM

Venue: Microsoft, Hyderabad.

No. of Participants: 80

Summary report on the event:

The ACM Student Chapter of the Department of Computer Science and Engineering, Anurag University, has organized an event "Introduction to Copilot" is an Industrial Visit to Microsoft, Hyderabad on 13th December, 2025 for CSE students.

The main objective of this visit was to provide students with practical exposure to the industry environment and to help them understand the application of emerging technologies in real-world scenarios.

Session Overview - Introduction to Microsoft Co-pilot:

The session conducted at Microsoft was focused on "Introduction to Microsoft Copilot", an AI-powered assistant integrated into various Microsoft products.

The session explained how Co-pilot uses Artificial Intelligence and advanced language models to enhance productivity, automate tasks, and support software development activities.

Key Highlights of the session included:

- ☐ Overview of Microsoft Co-pilot and its capabilities
- ☐ Role of AI in modern software development
- ☐ Use cases of Co-pilot in coding, documentation, and data analysis
- ☐ Impact of AI tools on productivity and innovation in the industry

The session was interactive and informative, enabling students to gain a clear understanding of AI-driven tools used in professional environments.

Exposure and Learning Outcomes:

The industrial visit provided students with valuable exposure to the corporate environment of a global technology company like Microsoft. Students gained insights into:

- ☐ Practical applications of Artificial Intelligence in the industry
- ☐ Professional work culture and organizational practices
- ☐ Industry expectations, skills, and career opportunities
- ☐ The importance of continuous learning and up skilling.

This experience helped bridge the gap between academic knowledge and industry requirements, motivating students to align their skill development with current technological trends.

Conclusion:

The industrial visit to Microsoft on 13th December, 2025 was a successful and enriching experience for the students. It significantly enhanced their understanding of AI technologies and their real-world applications. The initiative taken by the ACM Student Chapter contributed greatly to the overall professional and technical development of the students.

Digital Documentation of the Event:





Industrial Visit to Rap Motors Pvt Ltd, Rampally

Date: 20.12.2025

Time: 1.30 PM to 3.30 PM

Venue: Rap Motors Pvt Ltd, Rampally

No. of Participants: 50

Summary report on the event:

The IEI Professional Chapter of the Department of Mechanical Engineering, in association with the Office of Industrial Alliances (OIA), Anurag University, successfully organized an Industrial Visit to RAP Motors, Rampally, on 20 December 2025. The visit was organized for III Year Mechanical Engineering students with the objective of providing practical exposure to industrial

manufacturing environments and professional work culture in the automotive sector.

RAP Motors is an emerging organization involved in automotive manufacturing and related engineering operations, offering students valuable insight into real-time industrial practices.

Objectives of the Industrial Visit

- To provide students with firsthand exposure to industrial manufacturing practices.
- To understand shop-floor operations, assembly, and testing of automotive systems.
- To familiarize students with industrial safety standards and procedures.
- To bridge the gap between theoretical knowledge and practical industrial applications.

- To create awareness about career opportunities in the automotive and manufacturing sectors.

Visit Highlights

The visit began with an introductory briefing by the technical and operations team of RAP Motors, followed by a guided tour of the facility. Students were introduced to various sections of the industry and were briefed on operational workflow, safety norms, and quality practices.

Key areas of learning included:

- Manufacturing processes and shop-floor practices

- Assembly and testing of automotive components

- Material selection and quality control methods
- Industrial safety standards and procedures
- Production planning and workflow management
- Professional roles and responsibilities in industry

Interaction Session

The industrial visit enabled meaningful interaction between III Year Mechanical Engineering students and the RAP Motors staff. The interaction helped students gain insights into:

- Industrial expectations and professional discipline
- Safety culture followed in manufacturing industries
- Skill requirements for mechanical engineers
- Career growth opportunities in the automotive sector

Learning Outcomes

- Enhanced understanding of real-time manufacturing operations
- Awareness of industrial safety and quality control practices
- Improved understanding of production workflow and planning
- Exposure to career paths in automotive and manufacturing industries
- Better correlation between classroom learning and industrial applications

Conclusion

The industrial visit to RAP Motors proved to be a valuable learning experience for the students. It effectively complemented academic learning by exposing students to real-world industrial practices and professional work environments. The visit successfully strengthened students' understanding of mechanical engineering applications in the automotive sector.

Acknowledgements

The IEI Professional Chapter expresses its sincere gratitude to:

- Anurag University Management
- Dean, School of Engineering – Dr. V. Vijaya Kumar Sir, for kind support and permission
- Associate Dean & Head, Department of Mechanical Engineering – Dr. K. S. Srinivasa Chalapathi for continuous encouragement and guidance
- Dr. D. Pratibha, Associate Director, OIA
- Mr. G. Arun Reddy, Department Coordinator, OIA
- Technical & Operations Team of RAP Motors for their cooperation and support

The industry professionals shared their experiences and encouraged students to focus on practical skills, safety awareness, and continuous learning.

Digital Documentation of the Event:







Industrial Visit to RDC Concrete (India) Pvt. Ltd., Nacharam

Date: 18-07-2025

Time: 11:00AM To 3:30PM

Venue: RDC Concrete (India) Pvt. Ltd., Nacharam, Hyderabad

No. of Participants: 79

Summary Report on the event:

The Department of Civil Engineering, Anurag University, under the IEI Student Chapter, successfully organized an industrial visit to RDC Concrete (India) Pvt. Ltd., Nacharam, Hyderabad, on 18th July 2025 for the final-year Civil Engineering students. The visit aimed to bridge the gap between academic learning and practical applications in the field of ready-mix concrete (RMC) production, quality assurance, and modern construction materials. The event was coordinated by Dr. K. Madhusudhan Reddy and accompanied by Dr. B. Narender, Mr. K. Hajarath, and Mr. R. Saikiran, who guided and mentored the students during the visit. Introduction

Industrial visits play a crucial role in providing students with real-world exposure, complementing their classroom knowledge with hands-on learning. The construction industry is rapidly evolving with advanced materials and mechanized processes, and such visits give students the opportunity to observe these advancements directly. The visit to RDC Concrete (India) Pvt. Ltd., one of the leading RMC manufacturing companies in India, allowed students to gain deep insights into concrete technology, quality assurance procedures, and plant operations. This visit was a part of the Department's initiative to enhance industry-institute interactions and equip students with practical knowledge required in modern construction practices. Through the detailed explanations and demonstrations provided by the plant engineers, particularly Mr. P. M. Naidu, Quality Control Engineer, the students were able to understand the various stages of RMC production and the stringent quality control measures implemented to ensure the durability and performance of concrete in construction projects.

Objectives of the Industrial Visit

The key objectives of the industrial visit were as follows:

- To familiarize students with the production process of ready-mix concrete and its operational workflow.
- To understand the quality assurance and quality control (QA/QC) practices followed at a modern RMC plant.
- To learn about concrete mix design techniques, material selection, and testing procedures.
- To observe the functioning of advanced machinery and automated batching plants used in the production of RMC.
- To enhance the practical understanding of students regarding construction materials and real-world applications of concrete technology.

- To promote industry interaction and prepare students for professional roles in civil engineering fields.

Overview of RDC Concrete (India) Pvt. Ltd.

RDC Concrete (India) Pvt. Ltd. is a reputed manufacturer of ready-mix concrete, serving the construction industry with a wide range of concrete grades, special concretes, and high-performance mixes. With a focus on quality, reliability, and timely delivery, RDC has established itself as a trusted name in the Indian construction sector.

The Nacharam plant is equipped with state-of-the-art batching equipment, computer-controlled operations, and robust testing laboratories to ensure consistent quality of concrete. The plant follows stringent Indian Standards (IS codes) for mix design and quality checks, ensuring that every batch of RMC meets the requirements of strength, workability, and durability.

Key Activities During the Visit

During the visit, the students were welcomed by Mr. P. M. Naidu, Quality Control Engineer, who provided a comprehensive explanation of the entire RMC manufacturing process. The session included both theoretical presentations and practical demonstrations.

1. Introduction to Ready-Mix Concrete:

Mr. Naidu explained the concept of RMC, its advantages over conventional site-mixed concrete, and its widespread use in modern construction projects. He highlighted how RMC ensures uniform quality, reduces wastage, saves time, and meets strict deadlines in large-scale infrastructure projects.

2. Material Selection and Storage:

Students learned about the raw materials used in RMC production, including cement, fine aggregates, coarse aggregates, water, and admixtures. Mr. Naidu explained how proper storage and handling of these materials are critical to maintaining the quality of concrete. Students observed storage silos for cement, bins for aggregates, and tanks for water and admixtures.

3. Mix Design Process:

The importance of mix design in achieving the desired concrete strength and workability was explained in detail. Mr. Naidu provided insights into different mix design methods, including IS 10262:2019 guidelines, and how the plant adjusts proportions based on client requirements and project specifications.

4. Batching and Mixing Operations:

Students were shown the automated batching plant, where the raw materials are proportioned accurately using computer-controlled systems. Mr. Naidu explained how the batching process ensures precise mixing and consistent quality. Students also observed the central mixing units, where materials are blended to form the final concrete mix.

5. Quality Assurance and Testing:

Quality control is a critical aspect of RMC production, and students were introduced to various tests conducted in the QA/QC laboratory. These included:

- Slump test for workability.
- Compressive strength test using cube molds.
- Sieve analysis for aggregates.
- Testing for moisture content, water-cement ratio, and setting times.

6. Plant Operation and Dispatch:

Students observed the operations of the transit mixers, which transport the freshly prepared concrete to construction sites. Mr. Naidu explained the importance of timely delivery and maintaining the required slump to ensure the workability of concrete during transportation.

Learning Outcomes

The industrial visit provided students with an in-depth understanding of the RMC manufacturing process and its practical applications. Key learning outcomes included:

1. Understanding the complete production cycle of RMC, from raw material selection to final delivery.
2. Familiarity with advanced batching equipment and automated control systems used in modern plants.
3. Exposure to concrete testing methods and quality control standards.
4. Practical knowledge of mix design parameters and how they influence the strength and durability of concrete.
5. Insights into the importance of quality assurance in large-scale construction projects.
6. Awareness of the environmental and economic benefits of using RMC over traditional site-mixed concrete.

Benefits to Students

The visit was highly beneficial to final-year students, as it helped them connect theoretical concepts of concrete technology and construction materials with real-world practices. By observing modern equipment and advanced QA/QC procedures, students gained exposure to industry standards that will enhance their employability and technical competence.

Furthermore, interacting with industry professionals like Mr. Naidu gave students a chance to learn about current trends, challenges, and innovations in the RMC industry. The visit also motivated students to explore career opportunities in concrete technology, quality management, and construction project execution.

Acknowledgements

The Department of Civil Engineering extends its heartfelt appreciation to all those who contributed to the success of this industrial visit. We sincerely thank Dr. Pallavi Badry, Head of the Civil Engineering Department, for her continuous encouragement and support in organizing industry-oriented programs. Special thanks are due to Prof. V. Vijay Kumar, Dean, School of Engineering, for his guidance and motivation.

We also express our gratitude to Mr. P. M. Naidu, Quality Control Engineer, RDC Concrete, for his detailed explanation, demonstrations, and for sharing his valuable expertise with the students. A special acknowledgment is extended to the management and staff of RDC Concrete (India) Pvt. Ltd., Nacharam, for their warm hospitality and cooperation in facilitating this educational visit.

Conclusion

The industrial visit to RDC Concrete (India) Pvt. Ltd., Nacharam, was an enriching experience for final-year Civil Engineering students. It not only enhanced their understanding of concrete technology and RMC production but also emphasized the importance of quality assurance in construction projects. The visit successfully bridged the gap between classroom learning and industry practices, providing students with the practical knowledge and confidence required for their future professional careers.

Such industry-institute interactions are vital for preparing students to meet the demands of the construction sector, and the Department of Civil Engineering at Anurag University is committed to organizing more such visits to enhance the technical and practical skills of its students.

Digital Documentation of the Event:










RDC

Research, Innovation and Advanced Technology Exposure

Research Labs Visit to IIT Hyderabad

(Data Center, TiHAN & Al Department Interaction)

Date: 12th September 2025

Time: 11:00 AM – 3:00 PM

No. of Participants: 120

Summary report on the event:

The CSI Student Chapter of the Department of Artificial Intelligence has organized an outreach program, "Research Labs Visit to IIT Hyderabad," held on 12th September 2025. This visit is all about giving students the opportunity to step out of the classroom and experience firsthand how cutting-edge research is conducted at one of India's premier institutes.

We are truly grateful to Dr. G Ramaguru Sir, Director, DIACoE , IIT Hyderabad, for his support and encouragement. His kind reference gave us the wonderful opportunity to visit IIT Hyderabad, an experience that was both insightful and inspiring.

During the visit, students will get the opportunity to explore world-class labs, see innovative projects in action, and interact with researchers and experts who are pushing the boundaries of technology. It's a rare opportunity to witness how the theories we learn every day are transformed into practical solutions that make a tangible impact on the world.

We visited the AI Data Center at IIT Hyderabad at 11:00 am, where we were introduced to the institute's high-performance computing infrastructure. The

facility plays a key role in supporting research, teaching, and innovation, and the visit gave us an overview of its purpose and significance.

The servers are built on dual-socket Xeon/EPYC platforms with large expandable ECC memory, NVMe SSDs for fast access, and SAS drives in RAID for reliable bulk storage. The setup also includes powerful GPU resources such as NVIDIA RTX A6000 (48 GB) cards and DGX systems, enabling advanced Artificial Intelligence and High-Performance Computing applications.

To ensure seamless operation, the data center features 100G–200G networking, efficient management with IPMI/Redfish and MAAS, and strong backup systems including UPS, diesel generators, and precision air-conditioning. Overall, the visit gave us valuable insights into how IIT Hyderabad maintains world-class computing resources and inspired us to appreciate the scale and impact of such infrastructure.

From 1:30 pm, post lunch, we had a really engaging session with Dr. Ganesh Ghalme, Head Department of Artificial Intelligence, IIT Hyderabad, he welcomed us warmly and shared his thoughts on the exciting work happening in the department, giving us a glimpse into the world of AI research and innovation at IIT Hyderabad. Listening to his experiences and insights made the department's vision feel tangible and inspiring.

The discussion left us motivated and curious about the opportunities ahead. It encouraged us to think about exploring research projects, higher studies, and creative ventures, while reminding us that curiosity, hands-on learning, and active engagement are key to making the most of our time in the field of Artificial Intelligence.

VISIT TO TIHAN

Finally, at 2:30 PM, we visited TiHAN (Technology Innovation Hub in AI & Robotics), led by Director Ms.P. Rajalakshmi . The hub serves as a vibrant center for research, innovation, and technology development, bringing together students, researchers, and industry collaborators.

During the visit, we were briefed about several exciting projects at TiHAN. Among them was a drone designed to carry patients from one location to another, offering a glimpse into the future of emergency medical transportation.

We also learned about a driverless vehicle being developed for safe and efficient transportation, as well as autonomous navigation systems that enable machines to move intelligently without human intervention. Seeing these innovations up close gave us a real sense of how cutting-edge research is being applied to solve practical, real-world challenges. CONCLUSION

We are truly thankful to Dr.G. Ramaguru Sir, Director, DIACoE, IIT Hyderabad, whose kind reference made this wonderful visit possible. Walking through the data center, interacting with Dr. Ganesh Ghalme, Head, Department of AI, IIT Hyderabad, and exploring the exciting innovations at TiHAN under Director Ms.P. Rajalakshmi gave us a real glimpse of how knowledge and ideas are transformed into meaningful research. Seeing projects like patient-carrying drones, driverless cars, and autonomous navigation systems made us realize just how powerfully AI and robotics are shaping the world around us.

This experience was more than just a visit—it broadened our understanding, sparked our curiosity, and inspired us to think beyond textbooks. It reminded us that learning is not limited to classrooms but can grow into solutions that change lives. We came back encouraged to dream bigger, stay innovative, and keep pushing ourselves toward research, creativity, and higher studies.

Digital Documentation of the Event:











Guest Lecture to Automated STAAD Model Generation from Excel using OpenSTAAD

Date: 30.07.2025

Time: 11:00 AM To 12:40 PM

Venue: C-Block Seminar Hall, Anurag University

No. of Participants: 68

Summary report on the event:

The Department of Civil Engineering, in association with the Indian Concrete Institute (ICI) Student Chapter, organized a guest lecture on "Automated STAAD Model Generation from Excel using OpenSTAAD". The session aimed to provide students with hands-on knowledge of integrating Excel VBA with STAAD.Pro for efficient structural modeling and automation of repetitive tasks. The event began with a warm welcome address by the Head of the Department and the ICI Student Chapter Coordinator, who greeted the distinguished guest, Mr. Sarath Chandra Malluru, an alumnus of the Civil Engineering Department at Anurag University.

Session Highlights:

Mr. Sarath Chandra initiated the lecture by sharing his academic journey and professional experience in the civil engineering industry, emphasizing career opportunities in structural engineering and advanced computational tools. He then introduced the core topic—Automated STAAD Model Generation from Excel using OpenSTAAD-explaining its significance in daily structural engineering tasks.

Key highlights included:

Overview of Application Programming Interface (API) and its role in enabling communication between software without manual intervention. Examples of integrating STAAD.Pro, SAP2000 with programming languages such as Visual Basic, C#, Python, and C++.

Introduction to Visual Basic for Applications (VBA) in Excel. Demonstration of Excel VBA for preparing structural input data. Explanation of data types, subroutines, variables, worksheet interaction, conditional statements, loops, and data structures. Comparison of the manual modeling process in STAAD.Pro with automated model generation via VBA and OpenSTAAD functions. Step-by-step illustration of OpenSTAAD functions to transfer data from Excel to STAAD.Pro directly. Basics of OOPs in the context of automation. Creating reusable code modules for different structural elements. Live demonstration of creating a parametric portal frame model using Excel VBA linked to STAAD.Pro. Explanation of how parametric inputs can be varied for quick design iterations.

The session was highly interactive, with students posing queries on integrating OpenSTAAD with other programming platforms, automation benefits in large-scale infrastructure projects, and real-world applications in structural design offices. The guest speaker provided insightful answers, emphasizing the importance of programming skills in modern civil engineering practice. The lecture concluded with a note of appreciation from the department, acknowledging Mr. Sarath Chandra Malluru for sharing his expertise and inspiring students to adopt automation in structural engineering workflows. As a gesture of gratitude, the department felicitated the guest by presenting a shawl and a memento. The event successfully bridged the gap between academic learning and industry practice.

Digital Documentation of the Event:










vivitek

Industrial Visit to IMD

Date: 23-09-2025

Time: 10:00AM to 3:00PM

Venue: Begumpet, Hyderabad

No. of Participants: 54

Summary Report on the event:

Field visit arranged for IV year ECE students at IMD Begumpet, Hyderabad Telangana.

The theme behind the field visit is

i) For the awareness of the global network of weather forecast stations, highlighting key centers like:

☐ National Centers for Environmental Prediction

☐ European Centre for Medium-Range Weather Forecasts

☐ Indian Meteorological Department

ii) RADAR (Radio detection and ranging)

Weather Radar serves as a fundamental observational tool within meteorology. Its physical appearance often resembles on a rotating dish type antenna covered with large golf ball with protection of weather. The primary purpose of weather radar is to emit pulses of electromagnetic waves into the atmosphere and observe their reflection as they interact with precipitation particles.

☐ The highlight was visiting the radar system, featuring a large transceiver antenna covering the entire Telangana region. This radar emits microwaves

every minute, spending apparently 30% of the time emitting radiation and 70% receiving responses, with a horizontal range of 500 km and a vertical range of 16-20 km. This data is shared with the Aviation Research and Development Centre, the second largest in the world after Canada.

☐ Radar's advantages include its ability to provide timely and essential data for forecastingand alerting about severe weather conditions.

☐ Weather radar acts as a critical observational tool, detecting rain, snow, hail, damaging winds, and tornadic events while also aiding in forecasting weather patterns.

☐ The functionality of radar systems involves emitting electromagnetic waves and analyzing their reflection to determine the characteristics of precipitation.

☐ Each radar band offers unique capabilities along with different limitations, contributing to the accuracy and scope of weather forecasting.

☐ Weather radar, also called weather surveillance radar (WSR) and Doppler weather radar, is a type of radar used to locate precipitation, calculate its motion, and estimate its type (rain, snow, hail etc.).

March 21: Equinox Day July 4: Perigee Point January 4: Apogee Point

ANEMOMETER:

Anemometers measure wind speed by the amount of wind pressure against a surface, such as a cup or a propeller, or by using sonic pulses. A mechanical anemometer contains a wheel with cups or a propeller at the end of the spokes of the wheel.

PYRANOMETER:

A pyranometer measures solar irradiance on flat surfaces, capturing radiation in W/m² from a hemispherical view (180°). A pyranometer or solar irradiance sensor is used for climatological research and weather monitoring.

EVAPORATION PANEL:

The Evaporation Monitoring System measures how much water evaporates from a Class A evaporation pan by measuring the water level in an adjoining Stillwell. The Stillwell reduces fluctuations in the pan's water level caused by wind.

STEVENSON SCREEN:

A Stevenson screen (also known as an instrument shelter) is a meteorological screen to shield instruments against precipitation and direct heat radiation from outside sources, while still allowing air to circulate freely around them.

HYGROGRAPH:

Thermo Hygrograph works on the principle that organic materials expand and contract as the Relative Humidity changes. In this case, the organic material is Human Hair (it needs to be reconditioned). The hairs are bundled together and stretched between a fixed pin and movable pin.

THERMOGRAPH:

A thermograph is an instrument that records air temperature continuously ongraphing paper. It usually consists of a cylinder made to revolve once each week by means of clockworks inside. A sheet of graph paper is fastened on the outside.

ORDINARY RAIN GAUGE:

Ordinary Rain Gauge is an easy-to-use rain gauge which can measure rainfall accurately. The rain gauge has a large LCD display screen and a built-in rechargeable battery. It measures rainfall up to 1.5 meters away.

TIPPING RAIN GAUGE:

"Tipping bucket" refers to the mechanism that certain rain gauges deploy to measure precipitation at any given time. A tipping bucket rain gauge is the most common type available and is known to produce accurate and reliable results.

After a brief break at the IMD, we thanked the managing authorities and took leave from them around 02:30 PM that day. It was indeed a successful visit for which we express our sincere thanks to our management, HOD of ECE department, Prof. N. Mangalagouri

Digital Documentation of the Event:








DOPPLER WEATHER RADAR
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
ANURAG UNIVERSITY
INDUSTRIAL VISIT
TO
INDIAN
METROLOGICAL
DEPARTMENT
IEI Student Chapter in association with ROBOTICS CLUB
ACADAMIC YEAR 2025-26
DATE 23-09-2025

Interaction session with QNX and Pi-Square Technologies

Date: 17th December 2025

Time: 10:30 AM to 4.00 PM

Venue: E-Block Auditorium, Anurag University

No. of Participants: 90

Summary report on the event:

The Department of Electronics & Communication Engineering, in collaboration with the IEI, successfully organized a One-day Interaction session with QNX and Pi- Square Technologies on 17th December 2025 at the E-Block Auditorium, Anurag University. A total of 90 students from IV year B.Tech II-Sem ECE & EEE branches actively participated and presented their projects during the event.

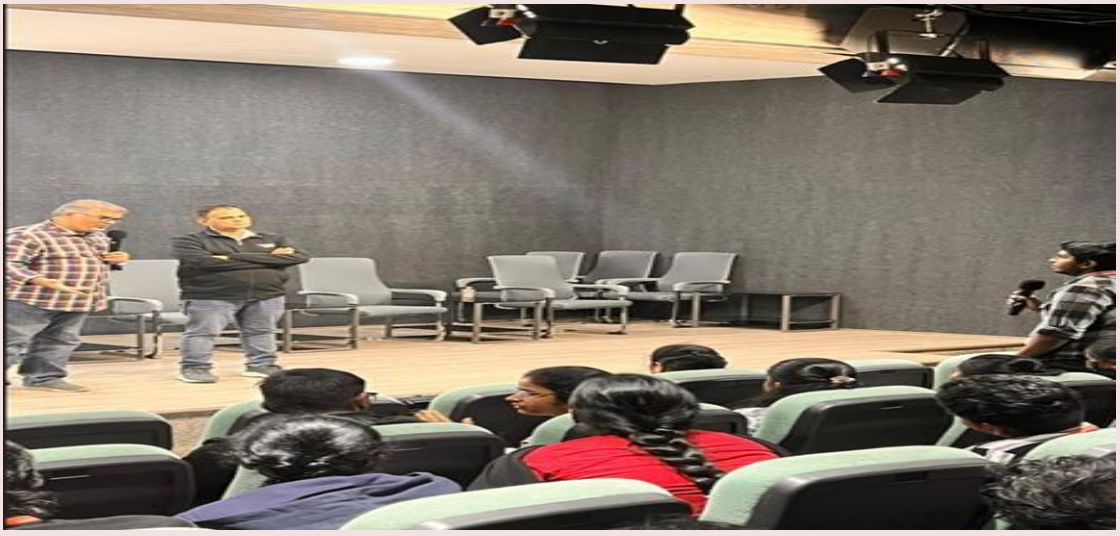
The event was graced by distinguished guests Murli Krishna Vemuri, Director of Engineering from Blackberry QNX; Chandra Shekhar.Jarapla, Principle Engineer, Blackberry QNX; Sangeeta Sharma, Manager Training, Pi- Square Technologies . Their presence added immense value to the program, and they interacted with the participants, provided guidance and encouraged students to solve real-time issues in RTOS based embedded projects. Explored the opportunities in various safety critical domains in industries.

At 4:00pm the program was concluded by thanking Resource Persons, the Management, the HOD-ECE and the faculty coordinators for arranging this session.

Digital Documentation of the Event:












ANURAG
UNIVERSITY
QNX
ANURAG
ENGINEERING
PI SQUARE
Interaction Session with
"QNX and PI-SQUARE TECHNOLOGIES"
In Association With IEI
On 17-12-2025
HEARTY WELCOME
TO

Entrepreneurship Development

The University provides platforms for students to demonstrate creativity, develop prototypes and explore innovative solutions to engineering and societal challenges.

BUILDATHON 2025

Date: September 15, 2025
Time: 10:00 AM to 04:00 PM
Venue: E-Block, Anurag University
No. of Participants: 136

Summary report on the event:

BUILDATHON 2025 was successfully conducted on September 15, 2025, at Anurag University as part of the Engineers Day Celebrations. The event aimed to foster innovative thinking and practical problem-solving among engineering students, with a focus on smart infrastructure and sustainable development.

Team Size: 2–4 members

Registration Fee: ₹400 per team

Total Teams Participated: 34

Total Student Participants: 136

Regions Represented: Mysuru, Vijayawada, Haryana, and others

Competition Themes: Participants showcased physical and conceptual models under diverse themes, including:

- AI-Optimized Smart Cities
- Disaster-Resilient Infrastructure
- Robotic Automation in Construction
- Smart Healthcare for Remote Areas
- Sustainable Transportation Networks
- Energy-Neutral & Zero Energy Buildings
- IoT-Based Waste Management
- Climate-Resilient Agriculture
- Smart Water Supply & Reservoir Systems
- Earthquake-Resistant Structures
- Urban Flood Resilience
- Smart Traffic Signal Systems
- Amphibious Housing
- Solar Roadways & Photovoltaic Integration
- Digital Twins
- Other AI Applications in Civil Engineering

Institutional Participation

Over 20 institutions from across India participated. Notable colleges included:

- Maharshi Dayanand University, Haryana
- Maharaja Institute of Technology, Thandavapura
- Siddhartha Academy of Higher Education, Vijayawada
- Osmania University
- ACE Engineering College
- Vidya Jyothi Institute of Technology
- TKR College of Engineering & Technology
- CMR College of Engineering & Technology
- Geetanjali College of Engineering & Technology
- Hyderabad Institute of Technology and Management

- Nalla Narasimha Reddy Group of Institutions
- JB Educational Society
- MRDU
- Anurag University

Awards & Recognition

The competition was judged by a panel of experts, and the following awards were presented:

First Prize: Climate-Resilient Precision Agriculture Systems, Osmania University, Hyderabad, Telangana.

Second Prize: IoT-Based Smart Waste Management for Smart Cities, Siddhartha Academy of Higher Education -Deemed to be University, Vijayawada, Andhra Pradesh.

Appreciation Prizes: Anurag University, VJIT, Geetanjali College of Engineering

Participation Highlights

- Strong representation from Anurag University across multiple themes
- High enthusiasm for sustainable and AI-integrated infrastructure
- Active involvement from students across all academic years
- All teams adhered to submission protocols including payment and ID verification

Special Guests

Chief Guest: Er. Saibaba Ankala

Special Invitees: Members of the Indian Concrete Institute (ICI), Hyderabad Chapter.

Organizing Committee

Program Chair: Dr. Pallavi Badry, HoD, Civil Engineering

Convenors: Mr. D. Maheswara Reddy, Mr. R. Sai Kiran

Co-Convenors: Mr. G. Sailu, Mr. B. Parameshwar

Student Coordinators: Katta Vyshali, Abhilash Goud, Goutham, Bhargavi

Sponsors

We gratefully acknowledge the generous support of our sponsors whose contributions were instrumental in the success of BUILDATHON 2025:

- Anandha Constructions
- Radha TMT
- NVLN Constructions

Conclusion

BUILDATHON 2025 was a resounding success, providing a platform for students to explore and present transformative ideas in civil engineering. The event not only celebrated Engineers Day but also highlighted the role of young engineers in shaping the future of smart and sustainable infrastructure in India.

Acknowledgement

We extend our heartfelt gratitude to Dr. Pallavi Badry (HoD, Civil Engineering) for her visionary leadership and support. Special thanks to Prof. V. Vijay Kumar (Dean, School of Engineering) for his continued encouragement and guidance.

Digital Documentation of the Event:








BUILDATHON 2025
Solutions for Smart Infrastructure - Model Presentation Competition
ORGANIZED BY
DEPARTMENT of CIVIL ENGINEERING
"CELEBRATING ENGINEERS DAY IN MEMORY OF BHARAT RATNA"


SBI
THE ANANDA

TEJAS 2K25 – 2025

Date : 27/01/2025





Anurag University's NSS Cell Unit I organized a visit for students from local government schools to the Tejas Expo 2025, aiming to inspire young minds by showcasing innovative projects developed by college students. The initiative provided an opportunity for government school students to explore a diverse range of projects, including technological innovations, scientific models, and creative solutions to real-world problems. During the visit, NSS volunteers guided the students through various project stalls, explaining complex concepts in a simple and engaging manner. Interactive sessions allowed the visiting students to engage with college students, gaining insights into the thought processes and efforts behind each project. A motivational talk was also conducted to encourage the young students to pursue higher education and develop a passion for learning. The visit made a positive impact, sparking curiosity and enthusiasm among the students while promoting inclusivity and bridging the gap between school education and higher education. Overall, the initiative by NSS Unit-1 Unit I Programme Officer Dr. J. Rajendra Kumar guided the volunteers.

Sustainable Industrial Practices

The University encourages awareness of responsible manufacturing, recycling and resource optimization through practical exposure to industrial processes and community-oriented initiatives.

NSS Field Visit – Rani Polymers, Cherlapally, Hyderabad

Date: 17th September 2025.
Venue: Rani Polymers, Hyderabad.

Organized by: NSS Cell, Unit – II.

As a part of the National Service Scheme's objective of imparting practical learning, industrial exposure, and community-oriented understanding to student volunteers, a field visit was organized to Rani Polymers, Phase–2, IDA Cherlapally, Hyderabad. The visit aimed to familiarize students with modern plastic manufacturing processes, recycling methods, and sustainable industrial practices.

Rani Polymers is a well-established micro-enterprise engaged in the production of durable plastic furniture, primarily plastic chairs. The organization utilizes a combination of semi-automatic and fully automated injection-molding machines, ensuring high-volume production with consistent quality standards. The company has adopted environmentally responsible operations by incorporating recycled plastic into the manufacturing process, thus minimizing waste and reducing dependency on virgin polymers.

During the visit, students were introduced to the various operational stages involved in chair manufacturing. The process begins with the procurement of plastic granules—both virgin polypropylene/polyethylene and recycled material obtained from damaged or defective plastic products. These granules

undergo a controlled melting process, followed by high-pressure injection into precision steel molds. The molded product is then subjected to regulated cooling, demolding, finishing, and final quality inspection.

The officials at the plant provided a detailed explanation of temperature control, pressure regulation, and the role of PLC-based automation in ensuring product uniformity. Students closely observed the recycling unit, where rejected chairs are segregated, cleaned, shredded, and reprocessed into reusable granules. This circular production approach stands as a strong example of industrial sustainability and responsible manufacturing—an important lesson for today's youth and aspiring engineers.

The quality control laboratory demonstrated several mechanical and physical tests performed to ensure the strength, durability, and safe usability of the finished products. The interaction with the technical team helped students understand the importance of precision in manufacturing and the significance of adhering to safety standards in industrial environments.

This field study provided an enriching learning opportunity for the volunteers, enabling them to correlate theoretical industrial knowledge with real-world engineering practices, especially within the plastic processing sector. It also strengthened awareness of the importance of recycling, resource optimization, and environmental responsibility — values NSS constantly promotes through its motto, "Not Me, But You."










ANURAG UNIVERSITY
NATIONAL SERVICE SCHEME
Ministry of Youth Affairs & Sports Govt. of India
Venkatapur(V), Ghatkesar(M), Medchal- Malkajgiri(Dist.), Telangana-500088
WELCOME YOU TO THE
"Reduce : Reuse : Recycle
NSS Volunteer's learns at Rani Polymers"
Rani polymers, cherlapally, hyderabad
17 SEP 2025
"NOT ME,BUT YOU"
ORGANIZED BY:
NSS UNIT- II , NSS CELL
ANURAG UNIVERSITY

Technical Events

Anurag University also encourages student participation in technology-oriented events through volunteering, collaborative activities and institutional support.

MALAI Club Hackathon

Date: 30 January 2025 to 01 February 2025
No. of Volunteers: 16

Outcome: The volunteers worked tirelessly to ensure that all attendees were well-fed and had a great dining experience. They efficiently managed the food distribution, maintained cleanliness, and provided excellent service to everyone. Their efforts truly made a positive impact on the event and left a lasting impression on all the attendees.

The NSS volunteers did an amazing job serving food at the malai club hackathon event for students. They worked hard to ensure all attendees were well-fed and had a great dining experience. Their dedication and teamwork in organizing and managing the food service contributed significantly to the success of the event, creating a positive impact on the students' overall experience.



TECHXCELERATE

Date: 20 February 2025 to 22 February 2025

No. of Volunteers: 28

Outcome: The volunteers worked tirelessly to ensure that all attendees were well-fed and had a great dining experience. They efficiently managed the food distribution, maintained cleanliness, and provided excellent service to everyone. Their efforts truly made a positive impact on the event and left a lasting impression on all the attendees.

The NSS volunteers did an amazing job serving food at the tech hack event for students. They worked hard to ensure all attendees were well-fed and had a great dining experience. Their dedication and teamwork in organizing and managing the food service contributed significantly to the success of the event, creating a positive impact on the students' overall experience.





DRISHTI: VISION FOR TOMORROW

Date: 06-February-2025

No. of Volunteers: 19

Outcome: Volunteers played a vital role in the event, organizing activities and distributing supplies to school children. The community came together to foster learning and support young minds. The children's joy while exploring IoT concepts was uplifting, and the experience inspired volunteers with a sense of purpose and social responsibility. The event showcased the power of collaboration in driving positive community change.

The NSS UNIT-IV have organized an event Drishti: Vision For Tomorrow in collaboration with IOT club. The volunteers dedicated their time and effort by dividing into teams and visiting different classrooms. They engaged with the school students, explaining basic IoT components in an easy-to-understand manner. By simplifying complex concepts, they made technology more accessible and sparked curiosity among the young minds.

Through real-life demonstrations, the teams showcased how IoT is applied in everyday situations, helping students connect theory with practical use. This hands-on approach not only enhanced the students understanding but also inspired them to explore technology further, laying a foundation for future learning and innovation.

The interactive sessions encouraged students to ask questions and participate actively, making the learning experience both engaging and enjoyable. By relating IoT concepts to familiar, real-world scenarios, the volunteers helped students see the relevance of technology in their daily lives. This not only boosted their interest in the subject but also motivated them to think creatively about how technology can solve everyday problems.

The event also fostered a collaborative learning environment, where students worked together to understand and experiment with the IOT components. This teamwork not only enhanced their technical knowledge but also helped develop problem-solving and critical thinking skills. The excitement and enthusiasm shown by the students highlighted the success of the initiative in making technology education both fun and impactful. The volunteers who participated in the event are Uttam, Jashwanth, Sugathri, Tharun and so on.





Research contributions

Research activities focus on multidisciplinary areas such as Artificial Intelligence, Machine Learning, Internet of Things (IoT), Blockchain, Healthcare, Agriculture, Cybersecurity, Renewable Energy, and Sustainable Technologies. These research initiatives address real-world challenges through technological innovation, advanced methodologies, and data-driven solutions.

Key contributions include advancements in healthcare and disease prediction, secure digital systems, smart agriculture, energy efficiency, sustainable infrastructure, and intelligent automation. These scholarly efforts promote innovation, support societal development, and contribute to achieving the United Nations Sustainable Development Goals (SDGs).

The following list highlights the research publications and contributions across these domains.

Title	Journal	Home Authors
LiDAR Image-Based Earth Carbon Emission Analysis and Its Impact on Public Health: A Machine Learning Model	Remote Sensing in Earth Systems Sciences	Dhyaram Lakshmi Padmaja
Private Blockchain-Based Efficient Secure Cloud Data Storage Using Federated Learning Framework	International Journal of Sensors, Wireless Communications and Control	Dastagiraiah C
A Reliable and Secure Permissioned Blockchain-Assisted Data Transfer Mechanism in Healthcare-Based Cyber-Physical Systems	CONCURRENCY AND COMPUTATION-PRACTICE & EXPERIENCE	P Vinayasree; A Mallikarjuna Reddy
Elevating engineering mechanics course through problem and project-based learning: Insights and experiences	Pedagogical Revelations and Emerging Trends	Dr.C Sravanthi; Pratibha Dharmavarapu; A Neeraja
A Novel Approach Using Artificial Intelligence for Early Prognosis of Chronic	Panamerican Mathematical Journal	Mal Hari Prasad

Kidney Disease in Asian Population		
Artificial Intelligence Technologies for Engineering Applications	Artificial Intelligence Technologies for Engineering Applications	G Sucharitha
Optimization and Comparative Analysis of Machining Performance of Al–Cu–SiC–GNP Composite: Influence of Reinforcement Variations Using Machine Learning, RSM, and ANOVA Validation	Advanced Engineering Materials	Talari Krishnaiah
Design of IoT enhanced fire detection and alarm system for industrial environments	AIP Conference Proceedings	Vemula Lingamaiah
Enhanced Mechanical Properties and Machinability of Al-Cu-SiC-GNP Smart Hybrid Composite Using Machine Learning Optimization	Arabian Journal for Science and Engineering	Madduri Rajkumar Reddy; Talari Krishnaiah
Thingspeak Cloud Server Based IoT Equipped Firefighting Robot	E3S Web of Conferences	Sharath Kumar B; Harish Pulluri; Srikanth Goud B
Video Based Car Parking Management and Monitoring Using Computer Vision and Machine Learning	2025 International Conference on Multi-Agent Systems for Collaborative Intelligence (ICMSCI)	T Annamani
An IoT based solution for Energy Conservation in Educational Institutions- a case study	2024 2nd International Conference on Recent Trends in Microelectronics, Automation, Computing and Communications Systems (ICMACC)	Dr. A Ajitha; G Srikar; P Manohar; C V Lahari; M Supriya; B Sri Harshitha

EFO: Resource Aware Scheduling Model for Cloud Computing Using Meta-Heuristic Algorithm	2024 5th International Conference on Communication, Computing and Industry 6.0 (C2I6)	G Swapna; Ramagowni Sivakumar
Thyroid Health Forecaster: A Cutting-Edge Hybrid Deep Learning Framework for Early Disease Prediction	2024 International Conference on Sustainable Communication Networks and Application (ICSCNA)	G L N V Kartheek
Ethereum Blockchain-Based KYC Verification	Smart Innovation, Systems and Technologies	Dr.J.Balaraju; Dr C Dastagiraiah
Adaptive and Scalable Cloud Data Sharing Framework with Quantum-Resistant Security, Decentralized Auditing, and Machine Learning-Based Threat Detection	International Journal of Advanced Computer Science and Applications	P Raja Sekhar Reddy
Customer usage of smart mirror technology in retailing: A study in apparel sector	Digital Transformation and Sustainability of Business	Mahendar Goli
Adoption of video calling applications: An extension of unified theory of acceptance and use of technology	Digital Transformation and Sustainability of Business	Mahendar Goli
Smart Farming Revolution: A Cutting-Edge Review of Deep Learning and IoT Innovations in Agriculture	Operations Research Forum	J Siva Prashanth; G Bala Krishna; P Ravinder Rao
IOT-Enabled Fault Diagnosis and Monitoring for Small Wind Turbine	E3S Web of Conferences	Srikanth Goud B
Energy Consumption Prediction using Machine Learning for an Organization	Journal of Science Computing and Engineering Research	G Rajasekhar; D Hemasree; U Vivek Raj; D Suma Ravali

Blockchain Based Inter-Organizational Secure File Sharing System	Journal of Science Computing and Engineering Research	J Jayendra Kumar; Devulapally Yathish; Dasari Ragini; Chindam Sreeja
Enhancing Diabetic Retinopathy Classification Using Deep Learning with Data Augmentation Techniques	Cognitive Science and Technology	Deepthi K
Deployment of Hybrid Chaotic Hashes for Blockchain Driven Internet 4.0 applications	Journal of Intelligent Systems and Internet of Things	Vinayasree P; A Mallikarjuna Reddy
Optimizing Energy Efficiency in IoT-Enabled Wireless Sensor Networks Using an Integrated EEKA-K-means Approach	International Journal of Intelligent Engineering and Systems	Abdul Aleem; Rajesh Thumma
Machine learning - powered intrusion detection system for agriculture 4.0: Securing the next generation of farming	International Journal of Innovative Research and Scientific Studies	Udaya Kumar Addanki
A Consensus Blockchain-Based Credit Risk Evaluation and Credit Data Storage Using Novel Deep Learning Approach	Computational Economics	V Amarnadh
Eco AI: Machine learning strategies for sustainable energy consumption in smart homes	AIP Conference Proceedings	Pammi Venkata Saty Siva Prasad
Crop Recommender and Yield Prediction System using Ensemble Machine Learning Techniques	2025 IEEE 14th International Conference on Communication Systems and Network Technologies (CSNT)	Niteesha Sharma; T Ashalatha
Multimodal Deep Learning Framework for Proactive Plant Disease Diagnosis	Metallurgical and Materials Engineering	V Rama Krishna

Cybersecurity Challenges in the Metaverse: An Exploration	Navigating AI and the Metaverse in Scientific Research	Peddaboina Yamuna
Anomaly Detection in Internet of Things Using Weighted Botox Optimization Algorithm with Gated Recurrent Unit	2025 3rd International Conference on Integrated Circuits and Communication Systems (ICICACS)	Gona Jagadesh
Detection and Classification of Fruit Diseases by using Deep Learning Algorithm	Journal of Science Computing and Engineering Research	Dasari Savith; Adusumalli Sai Locha; Kandula Shivani
BLOCKCHAIN BASED SMART HEALTH CARE SYSTEM	INTERNATIONAL JOURNAL OF ENGINEERING INNOVATIONS AND MANAGEMENT STRATEGIES	P Raja Sekhar Reddy; M Meghana; P Soumya; T Bharath
Automated Road Damage Detection Using UAV Images and Deep Learning	INTERNATIONAL JOURNAL OF ENGINEERING INNOVATIONS AND MANAGEMENT STRATEGIES	P Rajasekhar Reddy; Srinidhi Karnati; Mohammad Khaja Moinuddin Khan; Rashmitha Gutta
Image Classification for Visual Recommendation Using Deep Learning	INTERNATIONAL JOURNAL OF ENGINEERING INNOVATIONS AND MANAGEMENT STRATEGIES	Dr. B Ujwala; A Sreenidhi; K Shivani; G Praneeth
Image-Based Captcha Recognition Using Deep LearningModels	INTERNATIONAL JOURNAL OF ENGINEERING INNOVATIONS AND MANAGEMENT STRATEGIES	Dr. B Ujwala; J Pranitha; K Saipriya; K Sri Harsha
Securing Medical Records with Cryptography and Blockchainfor Enhanced Privacy and Accountability	INTERNATIONAL JOURNAL OF ENGINEERING INNOVATIONS AND MANAGEMENT STRATEGIES	Ch Shruthi; N Sravanthi; G Kondal Reddy

Empowering voice assistants with TinyML for user-centric innovations and real-world applications	Scientific Reports	Debajyoty Banik
Implementation of Novel Deep Learning Techniques for Real-time Object Detection	2024 International Conference on Communication, Computing and Energy Efficient Technologies (I3CEET)	Gujjari Balram; Pallam Ravi
Efficient Cryptography-based Multipath Routing Scheme for Wireless Sensor Networks in IoT Applications	2025 International Conference on Intelligent Computing and Control Systems (ICICCS)	Dr.E.Srinivas
Security Enhancement in MANET using Modified Crow Search Optimization Algorithm for IoT Applications	2025 International Conference on Emerging Smart Computing and Informatics (ESCI)	Dr.E.Srinivas
Performance Optimization in Wireless Sensor Networks using REAMR Protocol for IoT Applications	2025 International Conference on Emerging Smart Computing and Informatics (ESCI)	K Sai Krishna
Use of Active, Collaborative and Problem based Learning Strategies in the Digital Circuits Course of Electronics and Communication Engineering	Journal of Engineering Education Transformations	Dr. Poli Lokeshwara Reddy; N Mangala Gouri; D Narendar Singh; Harish Pulluri
Analysis of Cybersecurity Using Machine Learning Techniques	Kronika	Asma Tahseen
Machine Learning For Early Diabetes Detection And Diagnosis With KNN	Metallurgical and Materials Engineering	Dr.J.Balaraju
Artificial Intelligence in Quality Assurance: A New Paradigm for Total Quality Management	Operations Research Forum	R Jothikumar; J Jayendra Kumar

Machine Learning Strategies for Nifty50 Index Trading Optimization	2025 International Conference on Advanced Computing Technologies (ICoACT)	Srinivasa Rao Cheekati; Sudheer Reddy K
Machine Learning Driven Ultrasound Image Classification with Filter Optimization	2025 International Conference on Advanced Computing Technologies (ICoACT)	Sowjanya Yerramaneni; Sudheer Reddy K
A review on breast cancer detection using machine learning techniques	International Journal of Data Mining, Modelling and Management	Y Sowjanya; Sudheer Reddy K
Machine Learning for Botnet Attacks Detection in Industrial IoT Applications	Smart innovation, systems and technologies	G Suneetha; D Hari Priya
An Improved Recurrent Neural Network for Industrial IoT Botnet Attack Detection	Journal of engineering sciences	Suneetha G; D Hari Priya
Cryptocurrency Price Prediction using Deep Learning Algorithms: A Comparative Study	Communications on Applied Nonlinear Analysis	Pappula Ashok; Ameen Saheb Shaik
Advances in Stimuli-Responsive Polymers: Design Strategies, Synthesis Methods, and Emerging Nanotechnology Applications	Journal of Chemical Reviews	Dr.Rajeshwar. V; Vasudha Bakshi
Enhancing Quality of Life for Cancer Patients Through Innovations in Palliative Care; [Mejorar la calidad de vida de los pacientes con cáncer mediante innovaciones en cuidados paliativos]	Health Leadership and Quality of Life	Srinath G
Examining the Impact of Age on Chemotherapy Effectiveness among Lung	Health Leadership and Quality of Life	Vundela Swathi

Cancer Patients; [Examinar el impacto de la edad en la eficacia de la quimioterapia en pacientes con cáncer de pulmón]		
Comparing Machine Learning Algorithms for Predicting Cryptocurrency Prices: An Analytical Study	Advances in Nonlinear Variational Inequalities	Pappula Ashok; Ameen Saheb Shaik; T Satish Reddy
Early Stage Oral Cancer Detection using Machine Learning and Deep Learning Algorithms	2025 4th International Conference on Distributed Computing and Electrical Circuits and Electronics (ICDCECE)	V Vinay Kumar
Clinical insights into the mechanisms of infectious microbes and microbiota in chronic neurologic and psychiatric diseases	Pathology - Research and Practice	Rajeshwar Vodeti
Implementation of Real-Time Facial Emotion Recognition using Advanced Deep Learning Models	2025 3rd International Conference on Artificial Intelligence and Machine Learning Applications Theme: Healthcare and Internet of Things (AIMLA)	Medikonda Asha Kiran; Ramesh Babu Pittala; Manyam Thaile; Gangasani Saketh Reddy; Syed Shanoor; Edukulla Neerupam Raj
Enhancing Spam Call Identification with Deep Learning: A Hybrid CDR and Audio-Based Framework	2025 3rd International Conference on Artificial Intelligence and Machine Learning Applications Theme: Healthcare and Internet of Things (AIMLA)	Niteesha Sharma; T Ashalatha; T Manyam; Punnamaneni Lasya; Bhavitha Donapati; Madduri Sarayu

A Hybrid Machine Learning Model for Image Deduplication	2025 3rd International Conference on Artificial Intelligence and Machine Learning Applications Theme: Healthcare and Internet of Things (AIMLA)	B Pruthviraj Goud; Sudheer Reddy K; K Praveen Kumar; D Shivaganesh; P Vinod Kumar Reddy; S Sathish Reddy
Hybrid Energy-Efficient Clustering with Reinforcement Learning for IoT-WSNs Using Knapsack and K-Means	IEEE Sensors Journal	Abdul Aleem; Rajesh Thumma
Optimizing the early diagnosis of neurological disorders through the application of machine learning for predictive analytics in medical imaging	Scientific Reports	Kamalakar Ramineni
Machine Learning for Signal Processing in Communication Systems	2024 International Conference on Innovative Computing, Intelligent Communication and Smart Electrical Systems (ICSES)	Dr. Poli Lokeshwara Reddy; Chanda Shreyas
FinFET Technology Based Development of Energy Efficient Datapath System	2025 IEEE 1st International Conference on Smart and Sustainable Developments in Electrical Engineering (SSDEE)	G M Anitha Priyadarshini
Microbial Trends and Antibiotic Susceptibility in ICU-Admitted Patients: A Hospital-Based Study Examining Prevalence	Health Leadership and Quality of Life	Kothakonda Sairam

Across Multiple Critical Therapies		
Implementing W-Net deep learning for terahertz image enhancement and segmentation	Engineering Research Express	Dibakar Roy Chowdhury
Deep Learning-Powered Fall Detection and Behavior Monitoring Using Computer Vision	2025 Fourth International Conference on Smart Technologies, Communication and Robotics (STCR)	Niteesha Sharma; Sudheer Reddy K; Ramesh Babu Pittala; Anugna Sri J; Mahati G
Enhancing Medicinal Plant Identification with Deep Learning: A Data-Centric Approach	Communications in computer and information science	D Lakshmi Padmaja; Akash Reddy Busa; Manideep Anchuri; Mahati Gorthi
Artificial neural network-based machine learning approach to analyzing the influence of variable properties on convection past a rotating cone with Soret and Dufour effects	Physics of Fluids	Bhanoth Rajender; Shravan Kumar R
CLOUD IOT ENVIRONMENTS SECURITY: DEEP LEARNING WITH GENERATIVE AND EXPLAINABLE MODELS	Journal of Theoretical and Applied Information Technology	A Jyothi
Advancements and Applications of Artificial Intelligence and Machine Learning: Comprehensive Review	Advancements in Artificial Intelligence and Machine Learning	B Pruthviraj Goud; S Vijaykumar; Illa Mahesh Kumar Swamy
Next Generation Digital Certificate Validation - Leveraging Blockchain for Security and Efficiency	2025 7th International Conference on Intelligent Sustainable Systems (ICISS)	K Praveen Kumar; B Pruthviraj Goud; Sudheer Reddy K; S Sushruth; P Adinagesh; P Achyuth
Smart Cities and AI: Real-Time Traffic Management and Energy Optimization with IoT Integration	2025 3rd International Conference on Data Science and	Sudheer Reddy K

	Information System (ICDSIS)	
A Hybrid CNN-LSTM Deep Learning Model for Next-Generation OFDM Channel Estimation in Wireless Networks	2025 3rd International Conference on Self Sustainable Artificial Intelligence Systems (ICSSAS)	Shaik Nayab Rasool; Dr. Sravanthi Chutke; L Praveen Kumar; Dr A Madhusudhan
Predictive Modelling of Air Quality Using Machine Learning: Note: A Case Study in New Delhi	2024 Recent Advances in Sustainable Engineering and Future Technologies (RASEFT)	Mandhula Trupthi; R S Pavithra
Deep Learning and Blockchain-Driven Security for Pharmaceutical Supply Chains using Genetic Algorithm and SVM	2025 6th International Conference on Intelligent Communication Technologies and Virtual Mobile Networks (ICICV)	K Sai Krishna
Machine learning-driven prediction of Gaussian curvature deviation in reverse engineered freeform surfaces	Surface Topography: Metrology and Properties	Dr Dharmavarapu Pratibha
Energy Harvesting Antennas for Sustainable IoT Solutions	National Journal of Antennas and Propagation	Kothakonda Sairam
Lingua Franca 2.0: The Enduring Power of English Amidst Artificial Intelligence	International Journal of Language, Literature and Culture	Rajesh Dabbara; S Naga Padma
An Adaptive AI-Driven Cyber Threat Detection Framework for Securing Heterogeneous IoT Networks	Engineering, Technology and Applied Science Research	T Manyam
PRECISION AGRICULTURE THROUGH BIOCHEMICAL UREASE-AWARE CROP YIELD PREDICTION USING	Smart Agricultural Technology	V Jyothi; G Vishnu Murthy

ENHANCED FUZZY LOGIC AND DEEP LEARNING		
A Framework for DDoS Attack Detection and Mitigation in IoT Networks Using Deep Learning	2025 12th International Conference on Computing for Sustainable Global Development (INDIACom)	Ramya Talla; Prashanth Rao Adiraju; Sudheer Reddy K
Leveraging machine learning for automated classification of insect wing patterns	Journal of Entomological Research	Kasturi Pohini
Seeds of Intelligence: Generative AI and the Rise of Collaborative Robots in Agriculture 6.0	Exploring Generative AI for Collaborative Robots in Agriculture 6.0	Ravi Aavula
Smart Urban Traffic Management Using Cloud Powered Big Data and Machine Learning	Journal of Science, Computing and Engineering Research (JSCER)	K Jayendra Kumar; B Krishna kanth; R Akshay Kumar; B Sharanya
Artificial Intelligence Chatbot For Education	Journal of Science, Computing and Engineering Research (JSCER)	R Ananya; S P Bharath Kumar; Ch Deekshith Reddy; B V Srikanth
Spatio-Temporal Deep Learning Models for Forecasting Agricultural Drought in Rain-Fed Regions	International Journal of Environmental Sciences(IND)	Pulyala Radhika
Decentralized and Secure E-Voting: A Blockchain-Based Approach for Transparent Elections	Journal of Science, Computing and Engineering Research (JSCER)	Poloju Jayendra Chary; Neela Pavan Sai; Kada Manideep Kumar; P Ravinder Rao
High-performance fault diagnosis of smart grid insulators using YOLOv11-based instance segmentation for real-time energy infrastructure monitoring	Energy Exploration and Exploitation	Srikanth Goud B
Smart Healthcare System Using Machine Learning	2025 6th International	Y Sowjanya; Niteesha Sharma; T Asha Latha;

Techniques for Multi-Disease Prediction	Conference on Data Intelligence and Cognitive Informatics (ICDICI)	Midivelli Bipin Kumar; Kathroji Sai Yashwanth; Gattu Praneeth
A Deep Learning Approach to Track Real-Time Objects Using YOLO and DeepSORT for Next-Gen Security and Surveillance	2025 6th International Conference on Data Intelligence and Cognitive Informatics (ICDICI)	L Praveen Kumar
Evaluating the technology acceptance model for virtual reality systems in cultural heritage: Promoting heritage sites through virtual reality	Virtual Creativity	Archana Mantri
Selection of hyper-elastic materials and pattern of differentiated soft pads emulating human finger compliance in robotic fingertips	Multidiscipline Modeling in Materials and Structures	A Muni Tanuja
From Data to Harvest: How AI and IoT Are Shaping the Future of Farming	Exploring Generative AI for Collaborative Robots in Agriculture 6.0	Deva Rajashekar
Image-based Failure Detection and Visualization for Material Extrusion using Machine Learning	Recent Patents on Engineering	Dr C Dastagiraiah
Advancements and Applications of Artificial Intelligence and Machine Learning: A Comprehensive Review	Advancements in Artificial Intelligence and Machine Learning	B Pruthviraj Goud; S Vijaykumar; Illa Mahesh Kumar Swamy
IoT with Edge Computing Based Agro-Economic Model for Sustainable Farming	2025 IEEE International Conference on Advanced Visual and Signal-Based Systems (AVSS)	G Sucharitha

Biosynthesis of Carbon Nanoparticles and Their Potential Usefulness in Cancer Research and Biotechnology	Health Leadership and Quality of Life	Madireddy Sirisha
Assessment of Virulence Genes and Antibiotic Resistance in Pseudomonas aeruginosa Isolates from Poultry Carcasses	Health Leadership and Quality of Life	Nyalam Ramu
Double DQN-GAMO: A Cyber Threat Detection Framework for Zero-Day Attacks	2025 IEEE 50th Conference on Local Computer Networks (LCN)	Ranesh Naha
Retraction notice to "An improved energy-efficient cloud-optimized load-balancing for IoT frameworks" [Heliyon 9 (2023) e21947]	Heliyon	G Balakrishna
Machine learning based hydrogen fuel approach: A detailed experimental study on CRDI engine performance, combustion, and environmental characteristics	Energy	V Srikanth
DEEP-MISS: Deep Learning-based Fractional Brownian Motion Integrated GAN for Medical Image Segmentation with clinical Sensors	IEEE Sensors Journal	Kamalakar Ramineni
Enhancement of Energy Efficiency in WSN using Sustainable Energy Aware Multipath Routing Protocol for IoT Applications	2025 International Conference on Computing Technologies and Data Communication (ICCTDC)	V Vinay Kumar
TriHAtt-BERT-DBiLSTM: Deep learning model for medical emergency	Expert Systems with Applications	Amita Mishra

prediction from the unstructured data		
Mechanical and Machining Performance of WAAM-Fabricated Al-Cu-SiC-GNP Composite Using Machine Learning and TLBO–JAYA Optimization	Journal of Materials Engineering and Performance	Madduri Rajkumar Reddy; T Krishnaiah
Detection and Prevention of Cell Congestion in LTE Networks using Machine Learning Techniques	2025 International Conference on Modern Sustainable Systems (CMSS)	Kamalakar Ramineni
Current Approaches for Reducing Treatment Toxicities in Radiotherapy Side Effects Management	Salud, Ciencia y Tecnología	Rapaka Sudhir
Balancing Tumor Control and Protecting Healthy Tissue in Radiotherapy Dosage Optimization	Health Leadership and Quality of Life	Syed Farhan
On various tri-ideals in ternary Γ-semirings and their applications in mechanical engineering	Aip Conference Proceedings	Dr Jush Kumar Siddani
Detection Methods for Jamming and Spoofing Attacks in IoT Systems	2025 5th International Conference on Soft Computing for Security Applications (ICSCSA)	Kamalakar Ramineni
An Intelligent and Lightweight ML Model for Real-Time DDoS Attack Detection in IoT Networks	2025 4th International Conference on Innovative Mechanisms for Industry Applications (ICIMIA)	K Venkateshwarlu
Fake Job Posting Detection using Machine Learning Algorithms	2025 4th International Conference on Innovative Mechanisms for	K Ramakrishna Reddy

	Industry Applications (ICIMIA)	
Enhancing Aiot With Communication-efficient Federated Learning: A Blockchain-enabled Approach For Green And Secure Iot Systems	Journal of Theoretical and Applied Information Technology	Praveen Kumar Mundlagiri; Dr C Dastagiraiah
Deep Learning Framework for Casson Fluid Flow: A PINN Approach to Heat and Mass Transfer with Chemical Reaction and Viscous Dissipation	European Journal of Mechanics - B/Fluids	Shravan Kumar R
Artificial Intelligence and Optimization: Perfecting Decision-Making Models	2025 3rd International Conference on Sustainable Computing and Data Communication Systems (ICSCDS)	B Veera Venkata Sivaprasad
Machinability evaluation and multi-objective optimization of Al-Cu-SiC-graphene nano-platelets hybrid composite using water jet machining and machine learning approaches	Materialwissenschaft und Werkstofftechnik	Madduri Rajkumar Reddy; T Krishnaiah
Climate Change and Agriculture Land Suitability Insights from Interpretable Machine Learning	2025 IEEE 4th World Conference on Applied Intelligence and Computing (AIC)	Manyam Thaile; Yalla Abhinaya; Gorrenkala Rajkumar; Pathi Sunil Kumar; Yelugubanti Sunitha; Ramesh Babu Pittala; Dr. Medikonda Asha Kiran
Hearing Loss Detection Using Machine Learning	2025 IEEE 4th World Conference on Applied Intelligence and Computing (AIC)	Gauri Prakashrao Pame; G Sekhar Reddy; Ramesh Babu Pittala; Dr. G L Anand Babu; Veepuri Likhith Shanmukh Varma;

		Chennuri Abhinav; Kavali Sai Srehitha
A Secure and Adaptive Framework for Phishing Email Detection Using Voting-Based Machine Learning	2025 IEEE 4th World Conference on Applied Intelligence and Computing (AIC)	Lakshmi Prasanna Byrapuneni; Menga Mounika; Swamy Prithviraj; Dr. Medikonda Asha Kiran; Dasari Yogyasri; Pandita Meghana
Decentralized Tamperproof Certificate Validation in Education: A Blockchain Approach	2025 IEEE 4th World Conference on Applied Intelligence and Computing (AIC)	Gajja Aarthi Goud; Dr. Medikonda Asha Kiran; Jangam Alekhya; Pavan Kumar Reddy; Ramesh Babu Pittala; P V Kumar; Lakshmi Prasanna Byrapuneni; Pravin Ramesh Gundalwar
Exploring Deep Learning Techniques for Data Augmentation in Medical Image Datasets: A Survey	2025 5th International Conference on Intelligent Technologies (CONIT)	Vangapally Raju; Udaya Kumar Addanki; Medikonda Asha Kiran
OsteoPredict: Osteoporosis Risk Prediction using Machine Learning	2025 5th International Conference on Intelligent Technologies (CONIT)	B Ravi Raju; Medikonda Asha Kiran; G Sekhar Reddy; Katika Sushmitha; Nalla Madhuri; Nadukuda Sanjana
Multi-Sensor Fusion for Emotion Recognition using Machine Learning	2025 5th International Conference on Intelligent Technologies (CONIT)	Patlolla Akshaya; Katta Preethi; Medikonda Asha Kiran; T Manyam; Ramesh Babu Pittala; P Nagamani
Cotton Plant Disease Detection: A Deep Learning Approach	2025 5th International Conference on Intelligent Technologies (CONIT)	Sambaram Poojitha; Saggam Ganesh; Rudra Abhishek; Medikonda Asha Kiran; Ramesh Babu Pittala; Lakshmi Prasanna Byrapuneni
Bell Pepper Plant Disease Detection using Deep Learning Models	2025 5th International Conference on	Thota Akshaya; Ganji Shruthi; Pavan Sai Mohan Arige; Medikonda

	Intelligent Technologies (CONIT)	Asha Kiran; T Manyam; Pravin Ramesh Gundalwar
Real Time Health Monitoring System using IoT	2025 5th International Conference on Intelligent Technologies (CONIT)	Tegote Roshan; Vaddarapu Tarun Sai; Medikonda Asha Kiran; Y Sowjanya; Lakshmi Prasanna Byrapuneni; A B Pavani
Predictive Health Monitoring System for Patient Risk Assessment using Machine Learning	2025 5th International Conference on Intelligent Technologies (CONIT)	Adurupalli Sony; T Manyam; Medikonda Asha Kiran; Ramesh Babu Pittala; Busa Nithin Kumar; Gandham Sai Chandu
Correlations Between Gut Microbiome Changes, Gut Barrier Function, and Immune Homeostasis in COVID-19 Patients: The Role of Gut Microbiota in Immunity and Cancer Prevention	Health Leadership and Quality of Life	Kasturi Rohini
Gut Microbiome and Adult Obesity: Exploring the Weight Loss Potential of Probiotics, Prebiotics, and Synbiotics as Strategies with Potential Implications for Cancer Prevention	Health Leadership and Quality of Life	Kukatla Tejesh
Internet of things (IoT)-based affordable indoor security monitoring system	Aip Conference Proceedings	Mala Narayana
EmoVision: An Intelligent Deep Learning Framework for Emotion Understanding and Mental Wellness Assistance in Human Computer Interaction	International Journal of Artificial Intelligence, Data Science, and Machine Learning	Gunda Vamshi Krishna; Balija Dilip Reddy
4D Spatiotemporal Modelling Using Graph Attention Transformers for Climate-Responsive Urban Planning	MUSIK IN BAYERN	D Maheswara Reddy

Practical simulation techniques: Magical teaching approach of geotechnical engineering	GeoVadis	Badry Pallavi
AI-Enabled Early Detection of Pancreatic Cancer: Integrating Technology and Medicine	2025 5th International Conference on Intelligent Technologies (CONIT)	Raviraju Bandlamudi; G Sekhar Reddy; Ramesh Babu Pittala; Bhandari Sairaj Manohar; Pame Gauri Prakash Rao; Ramini Sai Sowmya
A Data Driven Approach to Software Quality Estimation Using Modern Machine Learning Techniques	2025 5th International Conference on Intelligent Technologies (CONIT)	S S Sai Priyanka; B Pruthviraj Goud; Pandita Meghana; K Praveen Kumar; Pothkan Sahith; Jakkala Shiva
Smart Recycling by Harnessing Machine Learning Techniques	2025 5th International Conference on Intelligent Technologies (CONIT)	Narendar Singh; G Sekhar Reddy; Raviraju Bandlamudi; D Jagadeesh Kumar; D Rohith; L Prakash
Satellite-based Infrastructure Change Detection using Deep Learning	2025 5th International Conference on Soft Computing for Security Applications (ICSCSA)	Kamalakar Ramineni
Heart Disease Prediction System Using Machine Learning	2025 3rd World Conference on Communication & Computing (WCONF)	Veeramaneni Srija; S U Ravi Kumar Chavali; Samba Kiranmai; Pottaala Shiva Kumar; G Sekhar Reddy; Vakiti Bhanu
Polarization-Dependent Radiative Loss Engineering for Unidirectional Reflection in Terahertz Metasurfaces	Advanced Materials Technologies	Dibakar Roy Chowdhury
Enhanced Emotion Recognition via Multi-Sensor Data Fusion and Machine Learning	2025 3rd World Conference on Communication &	Medikonda Asha Kiran

	Computing (WCONF)	
Smart Detection of Rice Leaf Disease using Deep Learning Models	2025 5th International Conference on Intelligent Technologies (CONIT)	B Ravi Raju; B Pruthviraj Goud; C Nanditha; V Shruthi; T Vandana; N Naga Lakshmi
Advanced Crop Yield Prediction Using Supervised Machine Learning Techniques and Environmental Data	2025 3rd World Conference on Communication & Computing (WCONF)	T Asha Latha; Niteesha Sharma; B Ravi Raju; Bejugam Rachana; T Varsha; Kunchala Rajesh
A Hybrid Approach To Accurate Breast Cancer Prediction Integrating: Explainable AI and Machine Learning	2025 5th International Conference on Intelligent Technologies (CONIT)	K Praveen Kumar; Ganga Rachuri; Davula Saleem; Parepalli Chandana; B Pruthviraj Goud; Suroju Vijay Kumar
Employee Retention Prediction by Machine Learning Models	2025 5th International Conference on Intelligent Technologies (CONIT)	G Sai Krishna; D Aravind; M Anusha; Kotra Umesh Chandra; K Praveen Kumar; Illa Mahesh Kumar Swamy
Website Traffic Forecasting using Machine Learning	2025 3rd World Conference on Communication & Computing (WCONF)	K Vinay Kumar; Bhanu Vakiti; Boine Abhinaya; Nallathati Deepika; Sheelam Malasri; Kongari Shruthi
Software Vulnerability Detection Tool Using Machine Learning Algorithms	2025 5th International Conference on Intelligent Technologies (CONIT)	Niteesha Sharma; G Sekhar Reddy; Ramesh Babu Pittala; Khushi Sharma; Sumit Kumar; Keesara Pavankalyan Reddy
Real-Time Voice-Based Cyberbullying Detection Using AI in Social Media and Gaming	Utilitas Mathematica	Acha Roopa; N Navaneetha; G Vishnu Murthy
Classification of Tomato Leaf Diseases using Deep Learning	Utilitas Mathematica	Panjala Chandana; Dr. B Ujwala; G Vishnu Murthy

A Novel Thyroid Nodule Recurrence Prediction Using Machine Learning Techniques	Utilitas Mathematica	Rapolu Chandana; T Veda Reddy; G Vishnu Murthy
Enhancing Credit Card Fraud Predication: Machine Learning-Deep Learning Ensemble with Fingerprint Authentication	Utilitas Mathematica	Satai Vamshi Kumar; Madar Bandu; G Vishnu Murthy
AUTOMATING MENTAL HEALTH ASSESSMENTS: A MACHINE LEARNING APPROCH TO ANXIETY STRESS DEPRESSION PREDICTION	Utilitas Mathematica	S Akshitha Bhavani; Dr M Sandhya Rani; G Vishnu Murthy
Integration of Explainable AI with Deep Learning for Real-Time Sentiment-Driven Stock Price Prediction	Computational Economics	G Bala Krishna; G Vishnu Murthy; Dr. D Ramana Kumar; M Sridevi
AI in Blockchain Security: Detecting Anomalies in Smart Contracts	2025 3rd International Conference on Intelligent Cyber Physical Systems and Internet of Things (ICoICI)	Anil Kumar Gona
Optimization-Driven Network Security in MANET using an Improved Self-Adaptive Sailfish Algorithm (ISASA) for IoT Applications	2025 3rd International Conference on Intelligent Cyber Physical Systems and Internet of Things (ICoICI)	R Ramprakash
Advancements in Proton and Carbon Ion Therapy for Precision Radiotherapy of Complex Tumors	Health Leadership and Quality of Life	Putta Chandana
Enhancing Trojan Detection with Machine Learning and Deep Learning: Exploratory Data Analysis and Beyond	Journal of Neonatal Surgery	Ravi Aavula

Optimized Machine Learning Models for Enhanced Diabetes Prediction through Hyperparameter Tuning Approach	Asian Journal of Statistical Sciences	Vijayakumar Yelsani
The Impact of Artificial Intelligence on Financial Decision-Making	Journal of Information Systems Engineering and Management	R Renuka
Integration of Traditional Teaching and Learning with Contemporary Engineering Education	SEBHA UNIVERSITY CONFERENCE PROCEEDINGS	D Narendar Singh; B Pavitra; Dr. Poli Lokeshwara Reddy; Naga Swetha R
Semantic data sharing and pricing in web 3.0 using blockchain	Discover Computing	G Sucharitha
Solar Power Generation Prediction Using Advanced Deep Learning Approach for EV Applications	2025 First International Conference on Intelligent Computing and Communication Systems (CICCS)	Dr. T. Dinesh
Hybrid Real Estate Intelligence: Personalized Recommendations Using Machine Learning	2025 International Conference on Sustainability, Innovation and Technology (ICSIT)	M Sridevi; Dr. Biksham V; Salar Mohammad; Vangapally Raju; Yaparala Suguna; V Sai Nithun Reddy
A Comparison of the Diagnosis Performance of Machine Learning Algorithms on the Breast Cancer Wisconsin Dataset	Engineering, Technology and Applied Science Research	Dr C Dastagiraiah
Automated segmentation of gastrointestinal organs using the TATIMPA network: a novel robust comparative deep learning approach with integrated multi-pyramidal attention	Network Modeling Analysis in Health Informatics and Bioinformatics	Lakshmi Prasanna Byrapuneni

Advanced Power Transmission Line Fault Recognition in IoT-Based Smart Grids Using Temporal Inductive Path Neural Networks	Journal of Vibration Engineering & Technologies	T Anil Kumar
An Effective Multi-Patch Deep Learning Method for Mitosis Detection in Breast Histopathology	Journal of Trends in Computer Science and Smart Technology	M Kusuma Sri; S Sathees Kumaran
Multidimensional Data Analysis of The FMRI Attention Paradigm Using Machine Learning and Web Tool Development for Interactive Knowledge Discovery	International Journal of Basic and Applied Sciences	P Nagamani
Adaptive Intrusion Detection System Towards Secure Internet of Things Enabled Intelligent Healthcare Industry	Lecture notes in networks and systems	G Sucharitha
Comparative analysis of machine learning classifiers based on fingerprint and face authentication	Aip Conference Proceedings	Vootla Sreeyah
Custom CNN Model for Healthcare Industry IoT Attack Detection and Classification	Smart Electronics Devices and Models for Healthcare Systems	G Suneetha; D Hari Priya
Deep Learning Based Multi-Object Waste Detection and Tracking in Dynamic Scenes	2025 IEEE International Conference for Women in Innovation, Technology and Entrepreneurship (ICWITE)	Abdul Ahad; Manoranjan Dash; A Mallikarjuna Reddy; P S Abhishek; O Prakyath Rao; B Leorah
TSR: Classifying and Scheduling of IoT Tasks in Heterogeneous Cloud-Fog Computing Environment	2025 International Conference on Sustainable Communication	G Swapna; K Venkateswarlu

	Networks and Application (ICSCN)	
IoT-Enabled Battery Thermal Management in EVs Using Grey Wolf Optimized Fuzzy Control	2025 2nd International Conference on Electronic Circuits and Signaling Technologies (ICECST)	Dr. Kolluri Srinivasa Chalapathi
Swarm Intelligence for Scalable IoT Data Fusion in Smart Cities	2025 International Conference on Sustainable Communication Networks and Application (ICSCN)	D Saidulu
Autoencoder Based Feature Engineering for Android Malware Detection Using Ensemble Classifiers	Lecture notes in networks and systems	K Shailaja
A Comprehensive Review on Cardiovascular Disease Risk Assessment for PCOS Women Using Machine Learning Techniques	Lecture notes in networks and systems	G Swapna; Rakesh Roshan
Precision agriculture for medicinal plants: Enhancing crop yield with CNN and IoT-driven soil moisture predictions	Applications of AI in Smart Technologies and Manufacturing	D Saidulu
A Reinforcement Learning–Enabled Digital Twin Framework for Mobile Network Infrastructure	Proceedings of the Conference on Social and Sustainable Innovation in Technology & Engineering	Salar Mohammad
Empirical Analysis of Mobile App Reviews: Machine Learning Approaches to Usability and Security	Proceedings of the 1st Engineering Data Analytics and Management Conference (EAMCON 2025)	Avinash Pal Lidlaan; Dr. Majeti Srinadh Swamy
Machine Learning	Machine Learning	Dr. P V S Siva Prasad

A Thorough Examination Of Deep Learning And Evolutionary Methods In Hyperspectral Image Processing	International Journal of Environmental Sciences(IND)	Dr. P V S Siva Prasad; G Vishnu Murthy; Dr. D Ramana Kumar; Tarana Singh; Dr C Dastagiraiah
Blockchain in Education: Revolutionizing Credential Verification and Academic Records	Smart Technologies for Sustainable Development Goals	Arun Sampaul Thomas G
AutoGrader+: Automated Grading of Typed Answer Sheets Using Machine Learning With Human-Aligned Scoring	Advances in Engineering Research	Gade Maria Reshvika Reddy; Kasala Sai Nikhitha; Painala Nikhil; Dr. Majeti Srinadh Swamy
Malware Detection in Android Using Machine Learning	REST Journal on Data Analytics and Artificial Intelligence	Manoranjan Dash; Vismaya Reddy B; V Srikanth; Venkata Naga Karthik A
Maize Leaf Disease Prediction Using Deep Learning	REST Journal on Data Analytics and Artificial Intelligence	Vunnam Revanth; Nalla Praveen Reddy; Polaki Mohan Prasad; Raghu Nallamothu
Prediction for Parkinson's Disease using Machine Learning through Voice	REST Journal on Data Analytics and Artificial Intelligence	Sridhar Reddy Gogu; Sai Madhav G; Deekshitha Rao R; Sathwik Reddy T
Predicting Parkinson’s Disease using Machine Learning	REST Journal on Data Analytics and Artificial Intelligence	Ch Lahari; Leela Manikanta Gopal V; Pavan Kumar N; Boda Kanaka Swamy
Fashion Recommendation System Using Deep Learning	REST Journal on Data Analytics and Artificial Intelligence	Ravulapally Manisha; Boyinapally Vijay Sagar; Dacharam Ganesh Reddy; Ravi kumar S
Diabetic Retinopathy Detection and Severity Grading Using Deep Learning	REST Journal on Data Analytics and Artificial Intelligence	Vruddhi U; Sarayu E; Dhanush A; T Neetha
Predicting Heart Disease Risk with Machine Learning Integrating Family History and Medical Data	REST Journal on Data Analytics and Artificial Intelligence	Naga Mahesh; Likhitha; Shirith Shekar; P Archana
Sign Language Recognition for Deaf People Using Deep Learning	REST Journal on Data Analytics and Artificial Intelligence	Askam Datha Prasad; Bongarala Sowmya;

		Katukuri Vasu; Manoranjan Dash
Autism Spectrum Disorder Prediction Model using Machine Learning	REST Journal on Data Analytics and Artificial Intelligence	Abhinaya K S; Anjan Raj D; Pranav Balaji T; Bala Krishna T
Leveraging Deep Learning for Traffic Management using Existing System	REST Journal on Data Analytics and Artificial Intelligence	Tanish Vardhineni; Yashwanth Reddy; Arun Kumar T; Ravi Kumar
Energy-efficient knapsack algorithm for intelligent cluster head selection in IoT enabled wireless sensor networks	Indonesian Journal of Electrical Engineering and Computer Science	Abdul Aleem; Rajesh Thumma
Malware Detection in PDF Files Using Machine Learning	REST Journal on Data Analytics and Artificial Intelligence	M Madhavi; Lokesh Chandra R; Syed Khaja Irfan; Sujith Reddy P
Handwritten Character Recognition Using Machine Learning	REST Journal on Data Analytics and Artificial Intelligence	Rapolu Mahathi; Danturi Vaishnav Kumar Goud; Golamari Aswitha; Munkampally Laxmikanth Reddy; Kanakswamy B
Implementation Of Customize Nutrition Recommendation System Using Machine Learning Model	REST Journal on Data Analytics and Artificial Intelligence	Abdul Ahad; Abdus Samad Khwaja; Ajay Kumar; Vineeth Naik
CONVERGENT AI AND BLOCKCHAIN FOR NEXT-GENERATION CYBERSECURITY AND DATA INTEGRITY: APPLICATIONS IN HEALTHCARE, PRIVACY, AND DIGITAL FORENSICS	International Journal of Engineering Applied Sciences and Technology	Akshara Penubelli; Rajini Meka; Arushi Agarwal; Srujana Gundabhat
A Comprehensive Multi-Model Approach to Kidney Stone Detection using Deep Learning	International Journal for Research in Applied Science and Engineering Technology	Ramagowni Sivakumar; Hrushikesh Reddy K V; Charan Reddy S; Surya Prakash Reddy B
Chronic Kindey Disease Prediction Using Machine Learning	REST Journal on Data Analytics and Artificial Intelligence	Harshitha K; Sai Surya M; Shashidar; T Neetha

IoMT Patient Monitoring with Blockchain and Fog Computing: A Secure and Efficient Architecture	2025 IEEE International Conference on Smart Internet of Things (SmartIoT)	Sudheer Kumar Battula
A review of human resource management in the age of artificial intelligence and automation	Multidisciplinary Reviews	Kasturi Rohini
Next-Gen AI Intelligent Home Surveillance Robot (IHSR) in Revolutionizing Security with Facial Recognition and Autonomous Patrolling	2025 IEEE 2nd International Conference on Information Technology, Electronics and Intelligent Communication Systems (ICITEICS)	Ch V Ravi Teja
Application of Latest IoT Techniques for Crop Yield and Moisture Prediction in Smart Farming	Smart innovation, systems and technologies	Pallam Ravi
IoT-Driven Voltage Regulation in Bidirectional EV Charging Systems Using Multi-Objective Optimization	2025 2nd International Conference on Electronic Circuits and Signaling Technologies (ICECST)	Lonavath Srinivas Naik
Dynamic Load Prediction in EV Charging Using IoT Sensors and Support Vector Regression	2025 2nd International Conference on Electronic Circuits and Signaling Technologies (ICECST)	Madan Mohan Reddy Nune
Additive Manufacturing: Emerging Trends and Technological Advancements	Journal of Mines, Metals and Fuels	N Madan Mohan Reddy
Privacy-Preserving Machine Learning Models	2025 International Conference on Multi-Agent	KakanaboyinaUpendra Rao

	Systems for Collaborative Intelligence (ICMSCI)	
Enhancing security and trust in AI-assisted manufacturing: A review of blockchain applications	Multidisciplinary Reviews	Manni Sruthi
A detailed review of cloud security models for iot environments: Challenges, solutions, and innovative	Multidisciplinary Reviews	Bodireddy Vamalatha
Design optimization in additive manufacturing: A review of AI applications for remanufacturing	Multidisciplinary Reviews	Dheeravath Raju
Micro-level green growth (MGG): A framework for assessing organizational progress towards sustainable development and implementing eco-innovations	Multidisciplinary Reviews	Bodireddy Vamalatha
A survey of robotic systems for building and infrastructure inspections: Current trends and emerging solutions	Multidisciplinary Reviews	Lokesh Ravilla
Applications of artificial intelligence in fault diagnosis and prognosis for industrial systems	Multidisciplinary Reviews	Kukatla Tejesh
Mechanisms for ensuring the security of collaborative robot systems in industrial settings	Multidisciplinary Reviews	Kothakonda Sairam
BiGRU-Based Intrusion Detection Framework for Enhancing Security in Cyber-Physical Systems	International Journal of Safety and Security Engineering	Gona Jagadesh
Q-BodyFogNets: A Novel Energy-Aware Deep Learning Framework for	International Journal of Computational and	Gona Jagadesh

Predicting Heart Diseases in Fog-BAN Environments	Experimental Science and Engineering	
Advances in Hepatocellular Carcinoma Management: Diagnostic Innovations and Treatment Strategies	Current Indian science	Dr.Dibyalochan Mohanty; Samala Sahithya
Machine Learning: AI Meets Blockchain: Machine Learning-driven Carbon Footprint Analysis for Next-Gen Sustainable Supply Chains	Sustainable Supply Chains and Carbon Footprint Reduction	Ravi Aavula
Email Spam Detection using Machine Learning Algorithm	Grenze International Journal of Engineering and Technology	Ramagowni Sivakumar
Ensuring Privacy in COVID-19 Detection with Blockchain and Multi-Modal Data Fusion of Breathing Sounds and X-rays	International Journal of Computational and Experimental Science and Engineering	G Bala Krishna; M Sridevi; G Vishnu Murthy
A HYBRID FRAMEWORK FOR DETECTION AND MITIGATION OF DDOS ATTACKS IN IOT ENVIRONMENT	International Journal of Applied Mathematics	Talla Ramya; A Prasanth Rao
Machine Learning-Based Prediction of Heart Attack Risk: A Data-Driven Approach	2025 9th International Conference on I-SMAC (IoT in Social, Mobile, Analytics and Cloud) (I-SMAC)	Ravi Aavula
Quantum Entanglement Dynamics in Topological Insulators for Next-Generation Quantum Computing Applications	International Academic Journal of Science and Engineering	Kamineni Sairam
Machine Learning-Driven Quality Control in Additive	International Academic Journal of	Syed Farhan

Manufacturing of Aerospace Components	Science and Engineering	
Collaborative Robot Integration Strategies for Flexible Assembly Lines in Small-Medium Enterprises	International Academic Journal of Science and Engineering	Aitha Srividya
Digital Twin-Enabled Predictive Maintenance Framework for Smart Manufacturing Systems	International Academic Journal of Science and Engineering	Mekala Ishwarya
Email Spam Detection using Machine Learning Algorithms	16th International Conference on Advances in Computing, Control, and Telecommunication Technologies, ACT 2025	Ramagowni Sivakumar
Blockchain-Based Traceability Systems for Enhancing Transparency in Pharmaceutical Supply Chains	International Academic Journal of Science and Engineering	B Vijay