ANURAG UNIVERSITY

SDG-4 QUALITY EDUCATION 2025



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Executive Summary 2025

Building Knowledge and Core Skills

Initiatives focused on developing students' foundational knowledge in programming, data structures, cybersecurity, communication skills and interdisciplinary learning.

Exploring Emerging Technologies

Workshops, expert talks and technical sessions introduced students to Generative AI, Agentic AI, prompt engineering, business intelligence, information security and advanced engineering applications.

Practical Learning

Hands-on activities in programming, Augmented Reality development, GenAI applications and Agile project management enabled students to apply classroom concepts to practical tasks.

Professional Exposure

Research visits to IIT Hyderabad, participation in the CSI Regional Convention, technical interactions and training in academic research tools provided opportunities to understand professional practices and research environments.

Career Development

Career-oriented sessions introduced students to technology career pathways, data analytics, artificial intelligence and SAP functional consulting, helping them understand emerging employment opportunities.

Research contributions

Research contributions covered innovative teaching practices, digital learning technologies, curriculum development, inclusive education, student support, assessment methods and learner engagement.

Outreach Programs

01 | Building Knowledge and Core Skills

Learning at Anurag University extends beyond regular classroom instruction through workshops, training sessions and academic activities that help students strengthen their subject knowledge and practical skills.

During 2025, students participated in programmes covering programming, data structures, cybersecurity, communication skills and interdisciplinary knowledge. These activities provided additional learning opportunities and helped students build a stronger foundation for their academic and professional development.

2025 Learning Highlights

Program	Learning Focus
Programming Essentials in Python	Programming fundamentals and problem-solving
Two-Day Workshop on C Programming and Data Structures Essentials	Programming concepts, data structures and logical thinking
Two-Day Workshop on Data Structures and Algorithms Using Java	Algorithms, data structures and computational problem-solving
Foundations of Cryptography and Secure Communication Systems	Cybersecurity and secure communication
Activity-Based Learning in English	Communication and active learning
Indian Knowledge Systems (IKS) and their Relevance across Disciplines under NEP 2020	Interdisciplinary learning and contemporary educational perspectives

The following section provides a closer look at these programmes and the learning opportunities they created for students.

Programming Essentials in Python

Date: 31st July to 1st August 2025
Time: 2:00 P.M to 4:00 P.M
Venue: H-block 815
No. of Participants: 80

Summary report on the event:

The Department of Data Science, under TASK, ISTE, and DATUM Club, organized a two-day Python Workshop conducted by Rakesh Reddy Sir, which turned out to be a very enriching experience. The sessions were interactive, and instead of just theory, we were encouraged to code by ourselves, which made the learning highly practical and engaging.

Day 1: Python Concepts – String Formatting, Functions, Modules & OOP

- Core Python Concepts Covered:

The session introduced fundamental Python concepts such as string formatting, functions, modules, and do strings. These topics helped us understand how to write cleaner, modular, and well-documented code, which is essential for building real-world applications.

- Object-Oriented Programming (OOP):

We explored the basics of OOP, including classes, objects, methods, and encapsulation. The session emphasized how OOP helps structure programs logically, making them scalable and easier to maintain in professional environments.

- Real-Life Coding Scenarios:

To make learning more practical and impactful, sir provided hands-on tasks based on real-life situations:

  - Designing a login page
  - Simulating basic net banking operations

These exercises bridged the gap between theory and application, showing how Python concepts are used in actual software development.

Day 2: Group Discussion and Problem Solving Activity

- Group Discussion Activity:

On the second day, the focus shifted to a group discussion activity. Participants were divided into teams and given corporate-relevant topics to discuss.

The objective of this activity was to strengthen:

- Analytical and critical thinking
- Problem breaking using python
- Task identification

Participants were assessed on clarity of ideas, active listening, confidence, and participation. Constructive feedback was provided to help each participant understand their strengths and areas for improvement.





Two-day Workshop on C Programming and Data Structures Essentials

Date: 27-11-2025 and 28-11-2025
Time: 09: 30 AM to 4:05 PM
Venue: H 315, Anurag University
No. of Participants: 150

Summary report on the event:

The Department of Information Technology, Anurag University, under the aegis of the CSI – Professional Chapter, successfully organized a Two-Day Workshop on "C Programming and Data Structures Essentials" on 27th and 28th November 2025. The workshop was conducted with the objective of strengthening the foundational programming skills of students and enhancing their understanding of core data structure concepts using the C programming language.

In today's competitive technical environment, a strong grasp of C programming and data structures is essential for problem-solving, system-level programming, and for building a strong base for advanced subjects. This workshop was designed to bridge the gap between theoretical knowledge and practical application through interactive sessions and hands-on discussions.

Objectives of the Workshop

The primary objectives of the workshop were:

- To provide a strong foundation in C programming concepts.
- To introduce essential data structures and their implementation in C.
- To improve students' problem-solving and logical thinking skills.
- To familiarize students with real-time applications of data structures.
- To prepare students for academic projects, competitive programming, and technical interviews.

Resource Person

The workshop was delivered by Mr. K. Ramesh, Technical Trainer – TASK (Telangana Academy for Skill and Knowledge), Hyderabad. Mr. Ramesh is a highly experienced trainer with extensive expertise in programming languages, data structures, and industry-oriented training. His practical approach and clear explanation of concepts greatly benefited the participants.

Schedule of the Workshop

The workshop was conducted in two sessions each day:
Session 1: 09:00 AM – 12:30 PM
Session 2: 01:30 PM – 04:00 PM
Adequate breaks were provided between sessions to ensure better engagement and interaction.
Day-wise Proceedings

Day 1: 27th November 2025
The first day of the workshop focused on building a strong foundation in C programming and introducing basic data structure concepts. The resource person explained the structure of C programs, data types, operators, control statements, and functions with clear examples. Later, students were introduced to arrays, strings, and basic searching and sorting techniques. The sessions were interactive, with live coding demonstrations and active student participation.

Day 2: 28th November 2025
The second day emphasized advanced concepts and practical applications. Topics such as pointers, dynamic memory allocation, structures, and linked lists were discussed in detail. The post-lunch session covered stacks, queues, and their applications, along with an introduction to trees. The workshop concluded with problem-solving exercises, coding tips, and guidance on interview preparation.

Participation and Interaction
The workshop witnessed enthusiastic participation from students of B.Tech (IT, CSE) and MCA programs. Students actively engaged in discussions, asked questions, and attempted problem-solving tasks during the sessions. The interactive teaching methodology adopted by the resource person made the sessions lively and effective.
Faculty members also attended the sessions and supported the smooth conduct of the event.

Outcomes of the Workshop
By the end of the two-day workshop, students were able to:
- Understand core concepts of C programming clearly
- Implement basic data structures using C
- Analyze problems and select appropriate data structures
- Improve coding skills and logical thinking abilities

- Gain confidence in handling programming challenges

The workshop significantly contributed to enhancing students' technical competence and readiness for future academic and professional endeavors.

Conclusion

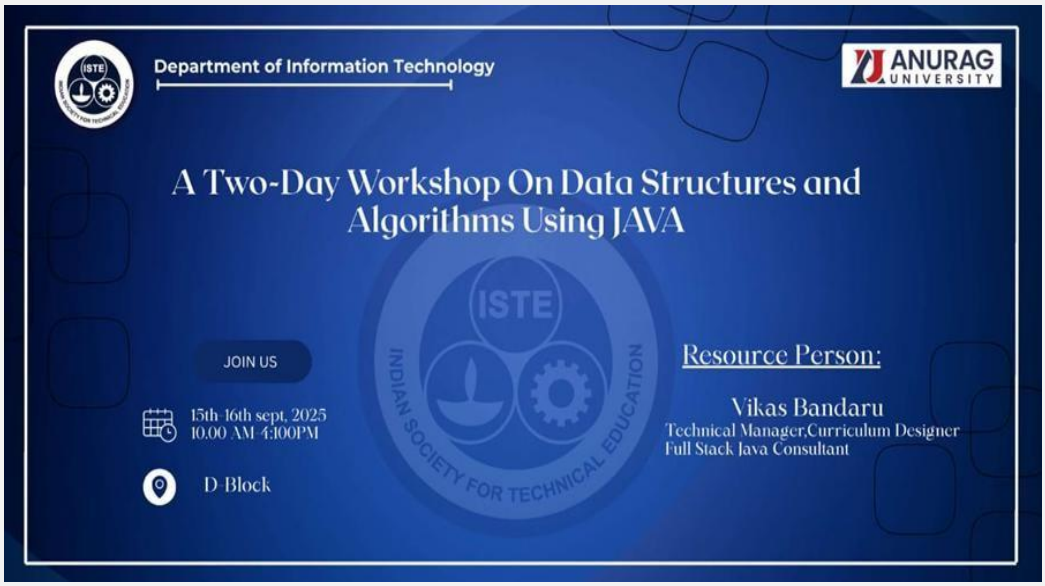
The Two-Day Workshop on "C Programming and Data Structures Essentials" was successfully conducted and achieved its intended objectives. The event proved to be highly beneficial for students in strengthening their programming fundamentals and understanding data structures from a practical perspective. The Department of Information Technology and CSI – Professional Chapter extend their sincere thanks to the management of Anurag University for their support, to Mr. K. Ramesh for his valuable contribution, and to all faculty members and students who made the workshop a grand success.





A Two-Day Workshop on Data Structures and Algorithms Using Java

Date: 15th – 16th September, 2025
Time: 10.00 AM-4.00 PM
Venue: D Block 412 & H-Block 514, Anurag University
No. of Participants: 240



Summary report on the event:

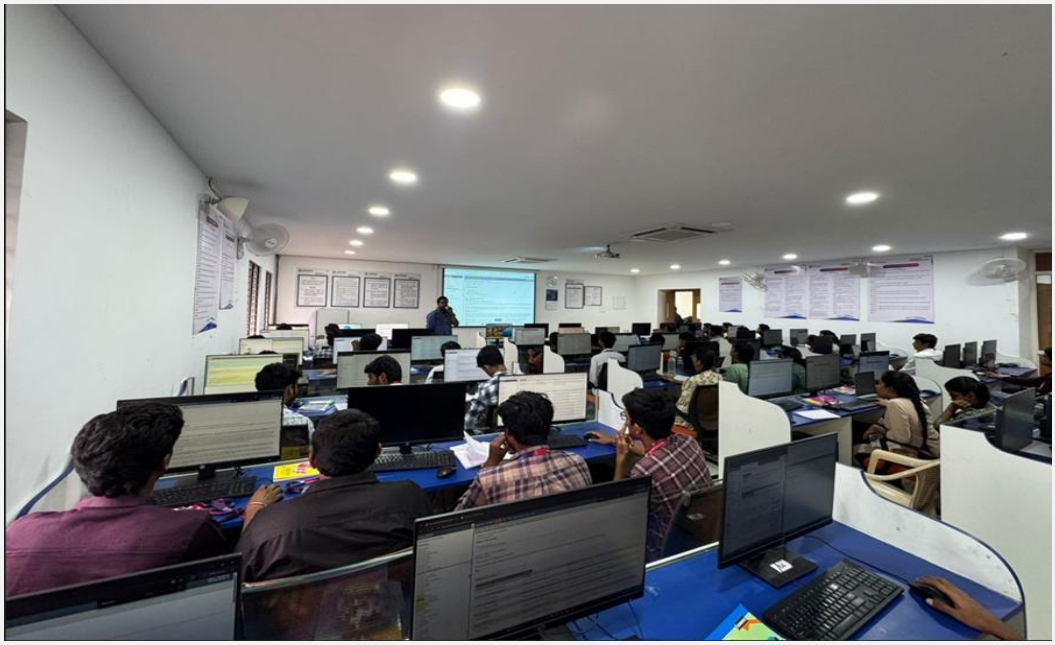
The Department of Information Technology at Anurag University organized a two-day hands-on workshop on 'Data Structures and Algorithms Using Java' under the ISTE Student Chapter from 15th to 16th September 2025. The workshop aimed to strengthen students' programming and problem-solving abilities through practical exposure to fundamental data structures and efficient algorithm design using the Java programming language.

Objectives of the Workshop

- To enable students to understand the implementation of core data structures such as arrays, stacks, queues, linkedlists, trees, and graphs using Java.
- To develop logical and analytical thinking skills in algorithmic problem-solving.
- To provide hands-on experience in coding exercises and mini-projects based on data structures.
- To bridge the gap between academic learning and industry-oriented programming practices.

Day 1: Fundamentals of Data Structures Using Java

The first day of the workshop focused on introducing the concept of data structures and their significance in efficient programming. Mr. Vikas Bandaru started the session with an overview of Java programming constructs, followed by a refresher on classes, objects, and methods. Students learned about arrays and linked lists through live demonstrations and coding exercises. The afternoon session included implementation of stack and queue operations using Java collections and manual logic-based approaches.



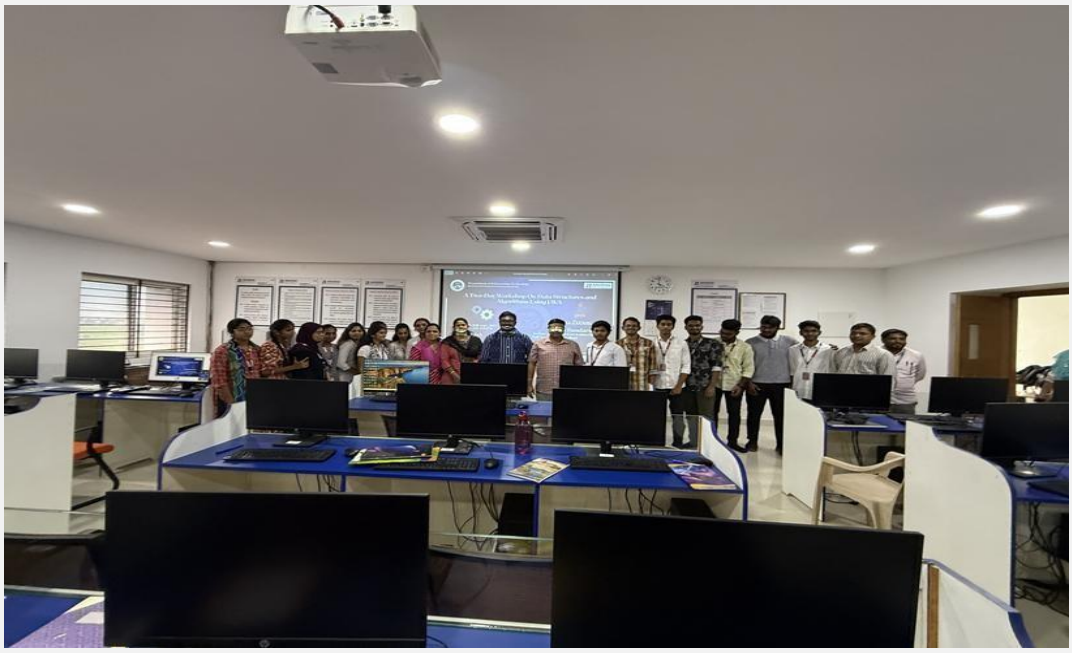
Day 2: Advanced Data Structures and Algorithmic Techniques

The second day emphasized tree and graph data structures and algorithmic problem-solving strategies. Mr. Vikas explained traversal algorithms such as BFS and DFS, and demonstrated sorting and searching algorithms including bubble sort, quick sort, and binary search. Students also engaged in mini coding challenges designed to enhance computational thinking and debugging skills. The session concluded with practical discussions on how data structures and algorithms form the backbone of real-world applications like compilers and search engines.

Event Highlights

- The workshop was highly interactive, with students actively participating in hands-on exercises.

- Mr. Vikas Bandaru shared his industrial experience and discussed the relevance of data structures in software engineering roles.
- The sessions were conducted in a well-equipped computer lab, ensuring that every student received individual guidance.
- Real-time code demonstrations and debugging examples helped students relate theoretical concepts to practical applications.
- A group photograph was taken with participants and the resource person at the end of the session.



Student Feedback

Students expressed that the workshop improved their understanding of Java and data structure concepts significantly. They appreciated the resource person's clear explanations and industry-based insights. Many students felt more confident in implementing algorithms and writing optimized Java programs after attending the session.

Conclusion

The two-day workshop on 'Data Structures and Algorithms Using Java' provided participants with essential programming insights and hands-on experience. It successfully enhanced their practical skills and motivated them to approach problem-solving with efficiency and precision. The Department of Information Technology extends heartfelt gratitude to the resource person, faculty, and students for making the workshop a success.

Foundations of Cryptography and Secure Communication Systems

Date: 3rd September, 2025
Time: 10.00 AM-4.00 PM
Venue: H-Block 412, Anurag University
No. of Participants: 130

Summary report on the event:

The primary objective of the workshop was to introduce students to the principles of cryptography, its practical applications in securing communication systems, and the latest trends in cyber security. It also aimed to build awareness about the role of cryptographic techniques in ensuring data confidentiality, integrity, and authenticity. By the end of the session, students were able to connect theoretical concepts with real-world cyber security challenges.

Program Highlights

Inauguration and Welcome Address – Led by the Faculty Coordinator, emphasizing the importance of cyber security and cryptography in the modern digital era.

Expert Session by the Speaker – Mrs. Suthoju Girija Rani delivered an insightful talk on the foundations of cryptography, focusing on encryption, decryption, secure communication protocols, and real-time applications in securing data.



Interactive Discussion – Students actively engaged with the speaker, clarifying doubts related to cryptographic techniques and their usage in real-world cyber security challenges.
Concluding Remarks – The session ended with an emphasis on the role of cryptography in ensuring confidentiality, integrity, and authenticity in digital communication.

Key Learnings

- Understanding the basic principles of cryptography and secure communication.
- Awareness about encryption techniques and their applications in modern security systems.
- Importance of digital security protocols in safeguarding data against cyber threats.
- Insights into how cryptography forms the foundation of cyber security in both academic research and industry applications.

Personal Experience

The workshop provided valuable exposure to real-world applications of cryptography. Students gained practical knowledge and were motivated to explore further research and projects in cyber security. The interactive nature of the session made the learning experience engaging and impactful. It also encouraged participants to think critically about the importance of data security in everyday digital interactions. Overall, the session acted as a strong foundation for students aspiring to build their careers in the cyber security domain.

Quiz and Feedback

At the end of the workshop, an online quiz was conducted to assess the understanding of participants on the topics of cryptography and secure communication. The quiz included multiple-choice questions covering symmetric and asymmetric algorithms, substitution and transposition ciphers, digital signatures, and hash functions. Students actively participated and showcased good knowledge of the concepts discussed during the session. The competitive spirit among students made the activity more engaging and enjoyable.
The quiz not only tested their theoretical knowledge but also encouraged them to apply the concepts in a practical way. It served as a quick revision of the key topics covered during the workshop. Many students expressed that the

quiz helped them identify their strong and weak areas in the subject. The activity created a healthy learning environment where participants learned from both correct and incorrect responses. Overall, the quiz added great value to the workshop by reinforcing learning outcomes in an interactive manner.





Activity Based Learning in English

Date: 10.07.2025
Time: 1.30 PM to 3.30 PM
Venue: AARAMBH Auditorium, Anurag University
No. of Participants: 60

Summary report on the event:

The Department of Mechanical Engineering, under the banner of the IEI Professional Chapter, successfully organized a dynamic session on "Activity-Based Learning in English" on 10th July 2025 at the Aarambh Auditorium. This enriching session was designed to enhance the writing and speaking skills of II B.Tech Mechanical Engineering students through interactive tasks, real-life scenarios, and collaborative exercises.

The program was meticulously conducted by Mrs. Ch. Aparna and Mrs. Ruth Livingston, Assistant Professors from the Department of English, Anurag University. They adopted a student-centric approach involving fun-filled communicative activities that helped participants become more confident in English usage in academic and real-world settings.

The session began with a welcome and briefing, followed by several team-based activities that encouraged active participation and engagement. Students responded enthusiastically and showcased their creativity and communication abilities in a supportive environment. This initiative aimed to foster language proficiency in a non-traditional format that aligns with the principles of activity-based learning, helping engineering students strengthen their soft skills essential for future professional success.

The success of the event was made possible due to the unwavering support and coordination among the faculty members and administrative staff.

The event marked a significant step in integrating language learning into technical education through experiential methodologies.

Special thanks are extended to Class in-charges of II Year: Mrs. Neeraja, Dr. P. Saritha, Dr. Sadanandam, and Mr. K. Srinivasulu for their cooperation in class adjustments,

Resource Persons: Mrs. Ch. Aparna and Mrs. Ruth Livingston for their engaging and inspiring session, HOD – English Department, HOD – Mechanical Engineering, Associate Dean, and Dean – School of Engineering for their continued support and encouragement.







Indian Knowledge Systems (IKS) and their Relevance across Disciplines under NEP 2020

Date: August 29, 2025
Time: 2:15 PM to 4:00 PM
Venue: Anurag University
No. of Participants: 50

Summary report on the event:

A panel discussion on the theme "Indian Knowledge Systems (IKS) and their Relevance across Disciplines under NEP 2020" was organized on August 29, 2025, from 2:15 PM to 4:00 PM, at Anurag University, coordinated by the SAARTHI Ambassadors. The event aimed to foster awareness of the significance of India's traditional knowledge systems and their integration with modern education, as envisioned in the National Education Policy (NEP) 2020.





The discussion brought together students and faculty from diverse disciplines, who actively engaged in exploring how IKS concepts—spanning science, engineering, arts, culture, medicine, agriculture, and philosophy—can be harmonized with contemporary academic practices. The session highlighted NEP 2020's vision of making education holistic, multidisciplinary, and rooted in Indian traditions while remaining globally relevant.

Panelists emphasized the importance of bridging traditional wisdom with modern technology and research to create sustainable solutions for the future. Participants reflected on examples of ancient Indian contributions in mathematics, architecture, literature, and medicine, connecting them with present-day applications and innovations.

The event served as a platform for critical thinking, encouraging students to appreciate the richness of India's intellectual heritage while also recognizing the scope for innovation and interdisciplinary applications. Attendees gained insights into how NEP 2020 advocates for the integration of IKS in higher education curricula to enhance cultural identity, creativity, and innovation.

The panel concluded with an interactive Q&A session, where students shared perspectives on applying IKS knowledge to their respective fields of study. Faculty experts acknowledged the relevance of such dialogues in shaping well-rounded graduates prepared for global challenges while being deeply rooted in cultural values.

The initiative not only promoted academic discourse on IKS but also encouraged students to value India's heritage as a source of inspiration for research and development. The program significantly enhanced awareness of NEP 2020's goals and strengthened the role of SAARTHI ambassadors in fostering youth engagement with educational reforms.

The event successfully reflected the spirit of NEP 2020 by bridging tradition with modernity, inspiring students to envision education that is inclusive, innovative, and rooted in India's timeless knowledge traditions.



02 | Exploring Emerging Technologies

Students are encouraged to explore emerging technologies, new areas of knowledge and developments beyond their regular coursework. Expert talks, technical sessions and specialized workshops provide students with exposure to current trends and help them understand how new technologies are being applied in different fields.

2025 Exploration Highlights

Program	Area Explored
One-Day Workshop on Generative AI and Agentic AI	Generative AI, agentic systems and emerging applications
Prompt Pilot: Navigate the World of GenAI	Prompting techniques and practical use of Generative AI
CSI Orientation and TechTalk on AI	Artificial intelligence and its applications
Expert Talk on Low Power Design Applications & Hold Time Case Study	Low-power electronic design and practical engineering applications
Importance of BI Tools: Platform-Independent Systems and Scalable Databases	Business intelligence, databases and data-driven systems
Information Security Management Systems – ISO 27001	Information security and organizational security practices
Expert Talk: Essential Skill Sets for the Modern Electrical Engineer – Core, Coding, and Beyond	Emerging technical and professional skills in electrical engineering

These programmes gave students opportunities to engage with emerging technologies, current industry practices and specialized areas of knowledge, helping them broaden their understanding beyond their regular academic curriculum.

The detailed program reports are presented in the following sections.

One-Day Workshop on Generative AI and Agentic AI

Date: 3rd September 2025
Time: 10:00 AM – 3:10 PM
Venue: D-Auditorium, Anurag University
No. of Participants: 180

Summary report on the event:

The CSI Chapter of the Department of Artificial Intelligence has organized a one-day workshop on "Generative AI and Agentic AI", held on 3rd September 2025, aimed at providing participants with valuable insights into the emerging trends and advancements in Artificial Intelligence. The event focused on the concepts, tools, and methodologies that are shaping the future of AI-driven solutions, particularly Generative AI and Agentic AI. Led by Dr. Kalyan Sarvepalli, the session covered a wide range of topics from industry perspectives to hands-on learning with AI frameworks, large language models, and intelligent agent systems.



Event Overview

The workshop under CSI was designed to provide participants with a strong foundation in the concepts and applications of Generative AI and Agentic AI. It focused on the emerging tools, frameworks, and practices shaping the future of Artificial Intelligence, including prompt engineering, AI workflows,

and intelligent agent systems. Emphasis was placed on hands-on learning, interactive demonstrations, and real-time problem-solving, enabling students to connect theoretical knowledge with practical use cases. The session encouraged participants to explore innovation, collaboration, and responsible AI practices in an evolving technological landscape.

Inaugural Session

The workshop commenced at 10:00 AM with participants gathering for the much-anticipated session on Generative AI and Agentic AI. The program was anchored by Ms. Srija, who welcomed the dignitaries, faculty members, and students. At 10:30 AM, the Dean, School of Engineering, and the Dr. A. Mallikarjuna Reddy, HOD of AI were invited to the stage along with the Chief Guest, Dr. Kalyan Sarvepalli.

The Chief Guest delivered the inaugural address at 10:35 AM, highlighting the transformative role of Artificial Intelligence in today's world. He emphasized the importance of understanding both Generative AI which enhances creativity and problem-solving and Agentic AI, which focuses on building autonomous systems capable of reasoning and acting independently.

Following this, the Dean addressed the gathering, stressing that AI is a critical skill for engineers and encouraging students to utilize every opportunity to learn emerging tools and technologies. The Head of Department further motivated students to explore the differences between Generative AI and Agentic AI, build strong professional networks, and actively engage in practical learning.

At 10:45 AM, the Chief Guest was felicitated by the Dean and HOD, marking the formal inauguration of the workshop. The inaugural session set an inspiring tone for the day, encouraging participants to immerse themselves in the world of Artificial Intelligence with curiosity, confidence, and responsibility.

Workshop Summary

Session 1 (11:00 AM – 3:10 PM)

The session began with a basic introduction to Generative AI and Agentic AI, covering key themes such as:

- What is AI? Why does it matter for engineers?
- AI for productivity, creativity, and innovation.
- Introduction to LLMs (ChatGPT, Gemini, Notion AI, Perplexity) and their practical use cases.
- AI Workflows: RAG (Retrieval-Augmented Generation) and the React Framework (Reasoning + Acting).

- Prompt Engineering: Good vs. bad prompts, effective prompting tricks, and P-BOTS (Profile, Background, Objects, Templates, Sample, Style).
- Hands-on exercises: Writing resumes, cover letters, and technical interview simulations using ChatGPT and Gemini.
- Exploration of Gemini AI, Copilot, and Perplexity through practical demonstrations. The Chief Guest stressed that "the hottest new programming language is English" and encouraged students to walk confidently in their AI journey.

Session 2 (1:40 PM – 3:10 PM)

- Post lunch, the workshop continued with advanced insights:
- Revisiting differences between Generative AI vs. Agentic AI.
- AI as the "New Electricity" driving the Cognitive Revolution.
- Industrial applications, sentiment classification, and CAPEX required for training LLMs.
- Building AI Agents and exploring open-source tools like n8n.cloud and Notion AI.
- Hands-on activity: Intelligent News Search & Summarization Agent using Gemini and Python.
- Reflections on Responsible AI Usage and practical guidance for exploring use cases beyond the classroom.
- Suggested resources included the movie Rain Man for understanding cognitive capabilities and AI parallels.

The Chief Guest concluded by urging students to collaborate, innovate, and explore adjacent possibilities with AI.

Vote of Thanks

At 3:10 PM, the event concluded with a formal Vote of Thanks, appreciating the Chief Guest, Dean, HOD, faculty coordinators, and participants for making the workshop a success. A feedback form and quiz were conducted to gather student reflections and reinforce learning outcomes.

Conclusion

The one-day workshop on Generative AI and Agentic AI proved to be an enriching learning experience for the participants. The sessions successfully combined expert insights with practical demonstrations, enabling students to understand the significance of Generative AI in driving innovation and creativity, and the role of Agentic AI in automating workflows and building intelligent systems.

Through discussions on LLMs, prompt engineering, AI frameworks such as RAG and ReAct, and hands-on tasks with tools like ChatGPT, Gemini,

Perplexity, and Notion AI, students gained both theoretical clarity and real-world exposure. The interactive activities, including resume building, intelligent summarization, and agent creation, helped participants apply concepts in practice.

The workshop not only enhanced technical skills but also emphasized responsible AI usage, networking, and continuous exploration, preparing students to engage confidently with future advancements in Artificial Intelligence. Overall, the event was a step forward in bridging academic learning with practical application, inspiring participants to innovate and explore opportunities in this rapidly evolving domain







ANURAG



Prompt Pilot: Navigate the World of GenAI

Date: 1st August 2025
Time: 09:30 to 03:45 PM
Venue: H-Block, Anurag University
No. of Participants: 106

Summary report on the event:

The Prompt Pilot: Navigate the World of GenAI workshop was a one-day intensive training session that introduced participants to the rapidly evolving field of prompt engineering — the core skill needed to leverage large language models (LLMs) like OpenAI's GPT, Google's Gemini, and Anthropic's Claude. The session provided a strong blend of theoretical insights and hands-on experience, guiding learners from the basics of prompt structuring to deploying AI-driven applications using tools like Google Colab and Streamlet.

Organized by AU Nexus Club in collaboration with the Computer Society of India (CSI), the Event aimed to make GenAI accessible to learners and practitioners at all levels.



Key Highlights

The workshop was designed to turn AI beginners into confident prompt engineers with the ability to apply generative AI to real-world scenarios.

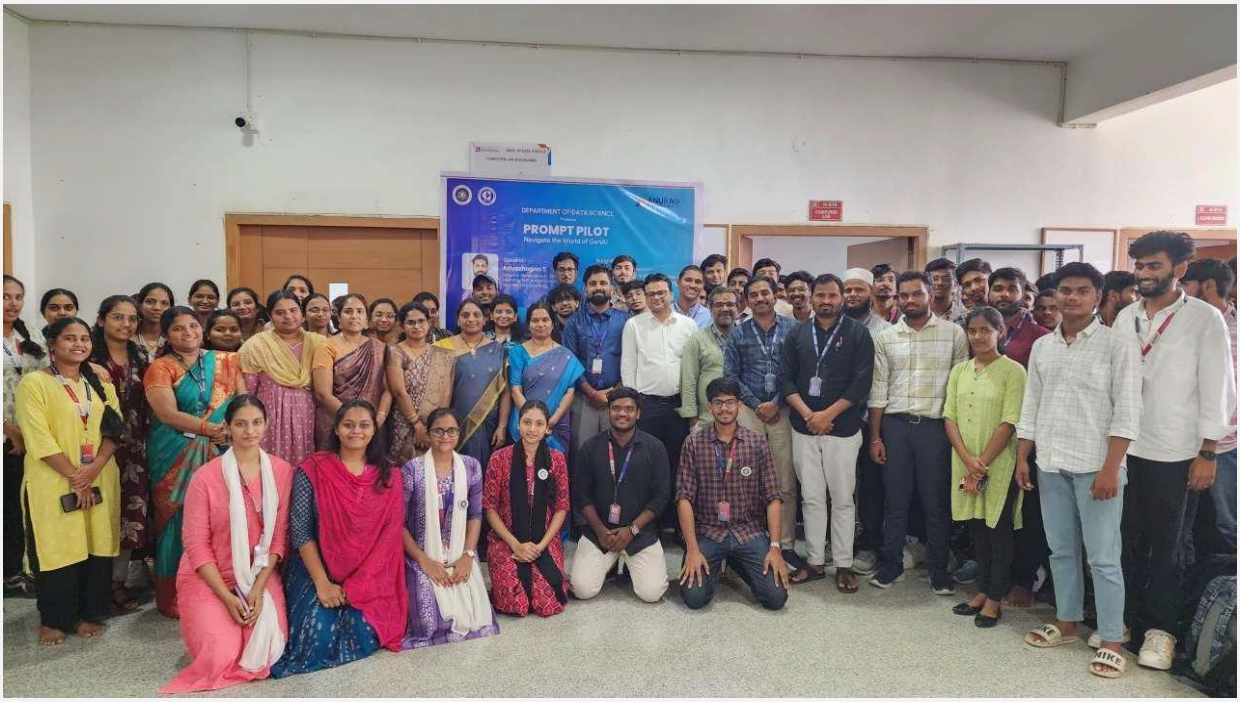
- Foundations of Prompt Engineering: Participants explored the basics of LLMs, prompting strategies (zero-shot, few-shot, chain-of-thought), and prompt construction using context, variables, and instructions.
- Hands-On Prompting Exercises: Learners created Q&A systems, rewriting tools, and tested LLM behavior using Google Colab.
- Functional Prompt Projects: The session covered resume summarizers, keyword extractors, and email classifiers using role-based prompt logic.
- Creative Automation with AI: Attendees developed data-to-text generators, SQL query builders from natural language, and bias detection tools.
- Deployment of Prompt Apps: Using Streamlet, participants built and tested GenAI mini-apps like flashcard generators or AI resume assistants.
- Toolkits Introduced: Google Colab, OpenAI API, Streamlet, and a brief introduction to Lang Chain.

Outcomes

- Solid Grasp of Prompt Engineering: Attendees developed foundational and practical knowledge of working with LLMs.
- Mini AI App Deployment: Every participant completed a working prototype of an AI-driven application during the session.
- Real-World Problem Solving: Exposure to use cases like resume analysis, text rewriting, and email classification highlighted the business value of AI.
- Technical Confidence: Participants gained confidence in working with tools like Streamlit and APIs to build no-code/low-code GenAI apps.
- Community Engagement: The session encouraged collaborative testing, debugging, and sharing of project ideas, boosting peer learning.

Conclusion

The Prompt Pilot: Navigate the World of GenAI workshop effectively introduced students to the transformative capabilities of large language models. With a balanced focus on theory and application, the session empowered participants to design prompts, evaluate AI responses, and deploy real-time AI solutions. The workshop concluded with a round of project demos, encouraging feedback, and a renewed enthusiasm for exploring AI technologies in academic and professional domains.


DEPARTMENT OF DATA SCIENCE
PROMPT PILOT
Navigate the World of GenAI


PROMPT

Expert Talk Session on Low Power Design Applications & Hold Time Case Study

Date: 29th August 2025

Time: 10.00 AM to 1.00 PM

Venue: E-Block Auditorium, Anurag University

No. of Participants: 167

Summary report on the event:

To bridge the gap between academic learning and industry practices in semiconductor design, the ISTE Professional Chapter of the Department of ECE, in collaboration with the Office of Industry Alliance, organized an expert talk titled "Low Power Design Applications & Hold Time Case Study." The session was conducted by Mr. Yachareni Santosh, a Fellow Silicon Designer at AMD, Hyderabad, renowned for his expertise in VLSI architecture and timing analysis. Mr Santosh is widely respected for his ability to distil complex engineering concepts into accessible insights for students and professionals alike. Mr Santosh conducted the session with exceptional clarity and patience, ensuring that each concept was thoroughly explained. His commitment to student understanding was evident throughout the session, as he welcomed questions and tailored his delivery to the academic level of the audience.

Held on 29th August 2025, the session ran from 10:00 AM to 1:00 PM, offering an immersive three-hour experience for students across four sections of the B.Tech IV ECE year. Objectives of the Session

- Introduce students to real-world challenges in low power VLSI design
- Understand the concept of hold time violations and their mitigation strategies
- Provide exposure to industry-standard tools and workflows
- Inspire students to pursue careers in semiconductor and embedded systems
- Strengthen academia-industry collaboration through expert engagement

Key Topics Covered

Low Power Design Applications

- Importance: Power efficiency is critical in mobile, IoT, and high-performance computing

- Types of Power Dissipation: Dynamic, static, leakage
- Techniques Discussed:

o Clock gating

o Power gating

o Multi-voltage domains

o Dynamic voltage and frequency scaling (DVFS)

o Use of low-power standard cell libraries

Applications:

- Smartphones and wearable's
- Data centers
- Automotive electronics
- Edge computing devices

🔻 Hold Time Case Study

- Definition: Hold time is the minimum time after a clock edge during which data must remain stable
- Violations: Can lead to incorrect data capture and system instability
- Causes:

o Short data paths

o Clock skew

o Process variations

Solutions:

o Inserting delay buffers

o Re-synthesis and re-timing

o Floor planning and layout optimization

Case Study:

- Real-world example from AMD's design pipeline

- How timing closure is achieved in high-speed chips
- Use of simulation and static timing analysis tools
- Exclusive Adoption: Many companies rely solely on VLSI technologies for their workflows
- Career Opportunities: Certified professionals are in demand at firms like AMD, Intel, Texas Instruments, and Bosch
- Innovation Ecosystem: collaboration among engineers, researchers, and developers worldwide

Hold Time: A Deeper Look

Hold time is the minimum amount of time after the clock edge during which the data input to a flip-flop must remain stable to ensure correct data capture. Violating this constraint can lead to unpredictable behaviour and logic errors.

Causes of Hold Time Violations:

- Short data paths: When the data path is too fast compared to the clock path, data may change before the flip-flop has latched it.
- Clock skew: If the clock arrives earlier at the receiving flip-flop than the sending one, it can reduce the effective hold time margin.
- Process variations: Differences in manufacturing can cause timing inconsistencies across the chip.

Mitigation Techniques:

- Buffer insertion: Adding delay buffers in the data path to slow down fast signals.
- Re-synthesis: Rewriting logic to balance timing paths.
- Clock tree optimization: Adjusting the clock distribution to reduce skew and align timing.

Hold time violations are particularly tricky because they can occur even in slow-speed designs and are harder to detect than setup time violations. Static Timing Analysis (STA) tools are essential for identifying and resolving these issues.

Clock Skew: Precision Matters

Clock skew refers to the difference in arrival times of the clock signal at different flip-flops in a synchronous circuit. It's a natural consequence of variations in wire lengths, routing paths, and load capacitance.

Types of Skew:

- Positive skew: Clock arrives later at the destination flip-flop than the source.
- Negative skew: Clock arrives earlier at the destination than the source.
- Zero skew: Ideal scenario where clock arrives simultaneously at all flip-flops.

Impact of Clock Skew:

- Setup time violations: If the clock arrives too late, data may not be stable long enough before the next clock edge.
- Hold time violations: If the clock arrives too early, data may change too soon after the clock edge.
- Reduced performance: Excessive skew limits the maximum operating frequency of the chip.
- Increased power consumption: Skewed signals may require more power to drive through the circuit.

Techniques to Minimize Skew:

- Clock Tree Synthesis (CTS): Designing balanced clock distribution networks using

H-tree or matched-tree structures.

- Buffer balancing: Inserting buffers to equalize delays across paths.
- Opposite routing: Routing data and clock in opposite directions to eliminate races.

Real-World Relevance

During the session, Mr Santosh illustrated how hold time and clock skew are not just theoretical concepts but real challenges faced in high-speed chip design. He shared examples from AMD's silicon development process, where timing closure is a critical milestone. Engineers must constantly analyze and

optimize these parameters to ensure reliable and efficient operation of processors and SoCs.

Understanding these concepts is essential for any aspiring VLSI designer, as they directly influence chip functionality, power efficiency, and performance.

Importance of Soft Skills

The session also highlighted the necessity of soft skills in engineering careers. Mr. Santosh stressed that technical knowledge must be complemented by:

- Effective communication
- Team collaboration
- Adaptability to new tools and technologies
- Leadership and time management

These skills are essential for thriving in multidisciplinary teams and fast-paced design environments.

Student Takeaways

- Clear understanding of low power design principles
- Exposure to timing analysis and hold time violations
- Awareness of industry tools like Synopsys Prime Time and Cadence Tempus
- Motivation to pursue internships and certifications in VLSI
- Appreciation for the role of soft skills in career success Conclusion

The expert talk by Mr. Yachareni Santosh was a resounding success. Held from 10:00 AM to 1:00 PM, the session offered a deep dive into the world of low power design and timing analysis, enriched by real-world case studies and industry insights. Mr. Santosh's patient and engaging delivery ensured that every student walked away with a stronger grasp of the subject and a clearer vision for their future in semiconductor design.

By combining technical depth with career guidance and soft skill awareness, the session served as a holistic learning experience. It reinforced the importance of bridging academic knowledge with industry expectations and inspired students to pursue excellence in both design and communication.





Importance of BI Tools: Platform-Independent Systems and Scalable Databases

Date: 29th December 2025

Time: 2.00 PM to 4.00 PM

Venue: H-Block 315, Anurag University

No. of Participants: 150



Summary report on the event:

The primary objective of the workshop was to introduce students to the importance of BI tools, their role in building scalable and secure database systems, and their applications in modern cyber security. The session aimed to raise awareness about how BI tools contribute to data confidentiality, integrity, and authenticity while addressing real-world cyber security challenges.

Workshop Proceedings

- Inauguration and Welcome Address: Delivered by the Faculty Coordinator, highlighting the importance of data security and BI tools in the digital era.
- Expert Session: The speaker delivered an insightful session on BI tools, platform-independent systems, scalable databases, and real-time data applications.

- Interactive Discussion: Students actively interacted with the speaker, clarifying doubts and discussing real-world applications.
- Concluding Remarks: Emphasized the role of BI tools in ensuring data confidentiality, integrity, and authenticity.

Key Learnings

- Understanding the fundamentals of BI tools.
- Awareness of data security and scalability in modern systems.
- Importance of BI tools in protecting data against cyber threats.
- Insights into securing and analyzing data using BI tools and real-world applications.

Personal Experience

The workshop provided valuable exposure to real-world applications of BI tools. Students gained practical insights and were motivated to explore further research and project development in cyber security and data analytics. The interactive nature of the session made learning engaging and impactful, encouraging critical thinking about data security in daily digital interactions.



Quiz and Feedback

An online quiz was conducted at the end of the workshop to assess participants' understanding of the topics discussed. The quiz included multiple-choice questions related to BI tools, scalable databases, and data security concepts. Students actively participated and demonstrated a strong understanding of the subject matter.

Conclusion

The workshop on "Importance of BI Tools: Platform-Independent Systems and Scalable Databases" was highly successful in achieving its objectives. It enhanced students' technical knowledge and provided clarity on the role of BI tools in ensuring data confidentiality, integrity, and authenticity. The interactive sessions and quiz made the workshop informative and engaging.

The ISTE Chapter of Anurag University continues to play a vital role in empowering students through such technical initiatives. These workshops bridge the gap between academic learning and industry requirements, preparing students to meet future challenges in the rapidly evolving technological landscape.



Information Security Management Systems Iso 27001

Date: 18th December, 2025
Time: 10:00 AM to 12:00 PM
Venue: I-block Seminar Hall, Anurag University
No. of Participants: 100



Summary report on the event:

This theoretical workshop introduced the fundamentals of Information Security Management Systems (ISMS) and the ISO/IEC 27001 standard. It focused on the importance of information security in safeguarding organizational data. The session explained the conceptual differences between information security and cyber security. Participants were introduced to the purpose and global relevance of ISO 27001. The instructor outlined how official ISO certification is obtained at an organizational level. The key stages involved in ISO 27001 certification were explained in a structured manner. Overall, the session provided a clear conceptual understanding of ISMS and ISO 27001 principles.

Mr. Marella Venkata Pavan Kumar is the Vice President – Compliance and Data Protection Officer at Cloud4C Services Pvt Ltd. He brings over 25 years of extensive experience in Information Technology and Information Security. His expertise includes Information Security Management Systems (ISMS), IT Risk Management, cloud and quality management system audits, and web application and database security assessments. He has led and contributed to VAPT initiatives and enterprise security programs across multiple domains. Mr. Pavan Kumar also has strong experience in designing and implementing information systems using proven quality methodologies such as Lean and Six Sigma. His sessions focus on bridging industry standards with real-world organizational practices.

Expert talk is for the awareness of Essential Skill Sets for the Modern Electrical Engineer: Core, Coding, and Beyond

Date: 16th September 2025
Time: 2:00 PM - 3:45 PM
Venue: D-Block auditorium, Anurag University
No. of Participants: 141

Summary report on the event:

Core Engineering Skills

These form the foundation of an electrical engineer's expertise:

- Circuit Analysis & Design – Mastery of AC/DC circuits, transient analysis, and power electronics.
- Electromagnetic – Understanding the principles behind motors, transformers, antennas, and transmission lines.
- Power Systems – Knowledge of generation, transmission, distribution, and protection of electrical networks.
- Control Systems – Concepts of feedback, stability, PID controllers, and real-time control.
- Measurement & Instrumentation – Skills in sensors, transducers, and data acquisition systems.
- Renewable Energy Systems – Basics of solar, wind, and smart grid integration.


An Expert Talk on
ESSENTIAL SKILL SETS FOR THE MODERN ELECTRICAL ENGINEER CORE, CODING, AND BEYOND
RESOURCE PERSON
Dr. PREETI DAHIYA



Coding and Computational Skills

- Modern engineering problems demand programming and computational modeling. Key coding skills include:
- Programming Languages – Python, MATLAB, and C/C++ for simulation and automation.
- Embedded Systems Programming – Working with microcontrollers (Arduino, PIC, STM32) and FPGAs.
- Simulation Tools – MATLAB/Simulink, PSpice, ANSYS, and ETAP.
- Data Analysis & AI/ML – Using Python libraries (NumPy, Pandas, TensorFlow) for predictive maintenance and smart applications.
- Automation & IoT – Knowledge of communication protocols (MQTT, Modbus) and IoT platforms for smart devices.



Interdisciplinary Skills

Electrical engineers increasingly work across domains. Important skills include:

- Electronics & Communication Basics – Understanding VLSI, digital signal processing, and wireless communication.
- Cybersecurity Awareness – Protecting smart grids and IoT systems from vulnerabilities.

- Sustainability Knowledge – Designing energy-efficient and eco-friendly systems.

Conclusion:

The modern electrical engineer must balance strong core technical knowledge with coding, computational, and interdisciplinary skills. Beyond technical proficiency, communication, problem-solving, and ethical responsibility are crucial to thrive in a rapidly evolving industry. By embracing these skill sets, students of electrical engineering can shape themselves into versatile professionals who are not just job-ready but also capable of driving innovation for a sustainable and technologically advanced future. Develop teamwork and leadership through group projects. It was indeed a successful expert talk completed for which we express our sincere thanks to our management, HOD of EEE department, Dr. T Anil Kumar.



03 | Practical Learning

Anurag University provides students with opportunities to apply what they learn through practical workshops, hands-on activities and technology-focused sessions. These programmes encourage students to work with concepts in a practical setting, develop problem-solving abilities and gain confidence in applying their knowledge.

2025 Practical Learning Highlights

Program	Practical Learning Focus
GAME LENS Creation Workshop4	Creative thinking, game development and practical application of technical skills
Two-Day Workshop on C Programming and Data Structures Essentials	Applying programming concepts and developing logical problem-solving skills
Two-Day Workshop on Data Structures and Algorithms Using Java	Implementing data structures and algorithms through programming
Programming Essentials in Python	Applying Python concepts to programming and problem-solving
Accelerating Software Projects with Agile, Scrum, and Kanban	Applying project management and software development practices
Prompt Pilot: Navigate the World of GenAI	Practical use of Generative AI and prompt-based tools

These activities helped students move from understanding concepts to using them in practical situations, while encouraging experimentation, creativity and problem-solving.

The following section provides details of the practical learning activities and workshops conducted during 2025.

Game Lens Creation Workshop

Date: 18th– 20th December 2025
Time: 1:30 PM to 4:00 PM
Venue: PG LAB – A105, Anurag University
No. of Participants: 150

Summary report on the event:

To introduce students to the fundamentals and real-world applications of Augmented Reality (AR) through hands-on practical exposure. The workshop aimed to empower students to design interactive Snapchat Game Lenses using SnapAR Lens Studio, while also providing insights into career opportunities, monetization strategies, and the evolving landscape of XR technologies.



Key Highlights

- Expert Guidance: The sessions were led by Ms. Chhavi Garg (Founder, Arexa & Bharat XR), who brought rich industry experience, guiding participants through live demonstrations and real-time development exercises.
- Structured Learning Path: The three-day workshop followed a progressive

structure:

Day 1: Introduction to AR concepts and their growing relevance in the tech industry.

Day 2: Hands-on training with SnapAR Lens Studio v5.16, where students built interactive game lenses using logic blocks and animations.

Day 3: Advanced sessions on optimization techniques, monetization models, and participating in official Snapchat AR challenges.

- Practical Outcome: Participants successfully developed and deployed functional AR game lenses, translating theoretical concepts into creative, industry-standard digital assets.
- Skill Development: The workshop significantly enhanced students' technical proficiency in AR tools, fostering innovation in game development and immersive technologies.

Conclusion

The Game Lens Creation Workshop was a resounding success, effectively bridging the gap between theoretical knowledge and practical application. By equipping students with in-demand skills in Augmented Reality and game development, the initiative strengthened CSI's

role in promoting technical excellence. The event not only sparked interest in the XR domain but also provided a clear roadmap for students to explore future careers and innovation in the AR space.

Accelerating Software Projects with Agile, Scrum, and Kanban

Date: 25-07-2025

Time: 10.00 AM-4.00 PM

Venue: H 315, Anurag University

No. of Participants: 150

Summary report on the event:

The Department of Information Technology at Anurag University organized a guest lecture on the topic "Accelerating Software Projects with Agile, Scrum, and Kanban" under the ISTE Student Chapter on 25th July 2025. The session aimed to bridge the gap between academic learning and industrial practices, helping students gain insights into modern project management methodologies used in software development.

The lecture was attended by third-year B. Tech students and coordinated by Mrs. A. Anitha, Assistant Professor, Department of IT.



Objective of the Event

- To introduce Agile methodology and its advantages over traditional software development practices.
- To familiarize students with Scrum roles, events, and artifacts.

- To demonstrate the Kanban framework and its application in real-time project tracking.
- To share real-world case studies from the IT industry to help students understand practical challenges and solutions.

Resource Person

Mr. Shiva Kumar Reddy Gouri, Lead Project Manager at NTT Data, was the guest speaker for the session. With 14.5 years of experience in IT, financial, and pharma domains, Mr. Shiva brought a wealth of knowledge in Agile practices, project and process management, and organizational transformation.

He has worked with global clients like Wells Fargo, Deloitte, HSBC, Apple, Pepsi, and Bank of Ireland. He holds certifications in Project Management, Agile, Scrum, BPM, and Lean Six Sigma, and is also a certified trainer and business consultant.

Session 1: Forenoon (FN) Time: 10:00 AM – 12:30 PM

Session Focus: Foundations of Agile and Scrum

Topics Covered:

1. Introduction to Software Development Methodologies

o Traditional (Waterfall) vs. Agile: Comparison of structure, flexibility, and responsiveness.

o Real-world need for Agile in modern industries.

2. Agile Manifesto and Core Principles

o The 4 values and 12 principles of Agile explained with industry scenarios.

3. Scrum Framework – Overview

o Introduction to Scrum as an Agile implementation.

o Roles and responsibilities: Product Owner, Scrum Master, Development Team.

o Scrum Events: Sprint Planning, Daily Stand-up, Sprint Review, and Retrospective.

4. Scrum Artifacts

o Product Backlog, Sprint Backlog, and Increment.

o Definition of Done and Acceptance Criteria.

5. Case Study from the IT Industry

o How Scrum was implemented in a banking project handled by the speaker (e.g., Wells Fargo or Deloitte).



Session 2: Afternoon (AN) Time: 1:30 PM – 3:30 PM

Session Focus: Kanban and Practical Application in Projects

Topics Covered:

1. Introduction to Kanban

o History and evolution from manufacturing to software.

o Key concepts: Visualizing workflow, limiting work-in-progress (WIP), managing flow.

2. Kanban vs. Scrum – Comparative Overview

o When and where to use each.

o Flexibility of Kanban in ongoing operations.

3. Demonstration of Kanban Board

o Digital or physical board setup.

o Columns: To Do, In Progress, Testing, Done.

o Real-time tracking and progress visualization.

4. Challenges in IT Project Execution

o Common pitfalls and how Agile/Scrum/Kanban help address them.

5. Interactive Q&A and Real-time Scenarios

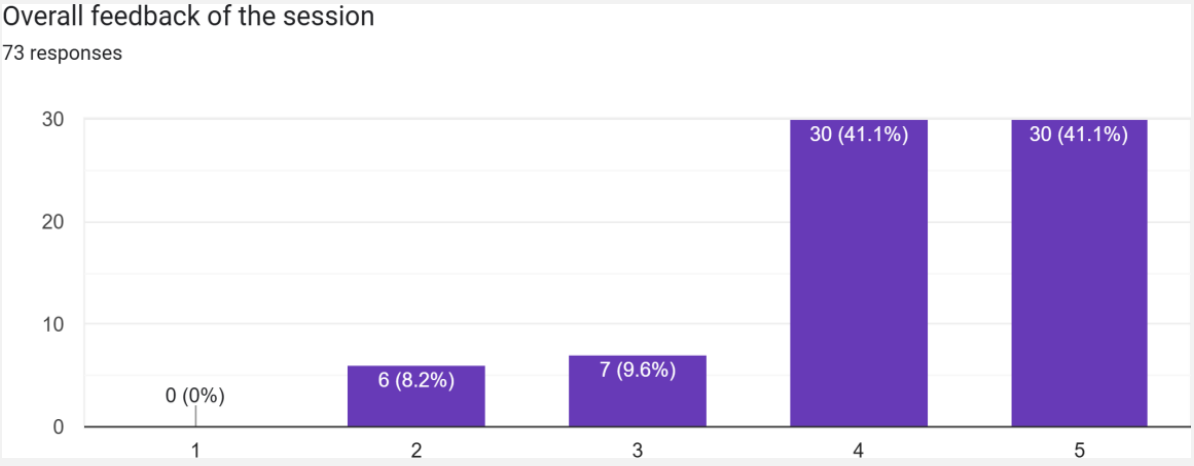
o Students asked questions related to internships, mini-projects, and industry trends.

o Speaker shared insights from Apple and NTT Data projects.

Event Highlights

- Mr. Shiva began the session by explaining the evolution of software project management techniques.
- He then provided a detailed overview of Agile principles, followed by a comparative analysis with traditional Waterfall models.
- Real-time examples of Scrum roles (Product Owner, Scrum Master, Team), Sprint Planning, and Daily Standups were discussed.
- A Kanban board was demonstrated, showing how it helps in visualizing workflows and identifying bottlenecks.
- The talk also included key challenges in IT project execution and how frameworks like Agile and Kanban help address them.
- An interactive Q&A session followed, where students actively engaged with the speaker.

Student Feedback



Students found the session highly engaging and relevant to industry expectations. Many appreciated the clarity with which the speaker explained practical use cases and management frameworks. The interactive examples enhanced understanding and provided a solid foundation for their future careers in software development and project management.

The ISTE student chapter team ensured smooth conduct and coordination of the event, including logistics, student invitations, and venue management.

Conclusion

The guest lecture provided valuable exposure to modern project management techniques and fostered a practical understanding among students about Agile, Scrum, and Kanban. It empowered them with knowledge and tools relevant to today's IT industry demands. The department looks forward to hosting more such industry-academia interactions to continue enriching the student learning experience.



04 | Professional Exposure

Anurag University provides students with opportunities to connect with researchers, professionals, academic institutions and professional bodies. These interactions help students gain a broader understanding of their fields and learn about developments beyond the classroom.

2025 Highlights

Program	Exposure and Interaction
Research Labs Visit to IIT Hyderabad	Exposure to research facilities, the Data Center, TiHAN and interaction with the AI Department
CSI Orientation and TechTalk on AI	Interaction with a professional student body and exposure to developments in Artificial Intelligence
AVENSIS 2K25 – CSI Regional Convention	Interaction with students and professionals through a regional technical platform
Research Tools in ACM	Introduction to academic research resources and tools
Expert Talks and Technical Sessions	Interaction with subject experts and professionals on current developments in engineering and technology

These activities gave students opportunities to step outside the classroom, interact with experts and peers, explore research environments and understand current developments in their areas of study.

The following section presents the detailed activities through which students connected with academic, research and professional communities during 2025.

Research Labs Visit to IIT Hyderabad (Data Center, TiHAN & AI 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.

CSI Orientation and TechTalk on AI

Date: 25th July 2025

Time: 9:00 AM – 2:00 PM

Venue: D Block, Manas Auditorium, Anurag University

No. of Participants: 200

Summary report on the event:

CSI Orientation 2025, hosted by the Department of CSE, marked the official start of the new academic year and introduced students to the CSI Student Chapter. The event featured insightful talks, recognition of contributors, and the announcement of the new student bodies.

Key Highlights:

- Opening Session: The event began with student gathering, guest welcome, and a ceremonial lamp lighting.
- Guest Addresses: Speakers included Dr. V. Rama Krishna and CSI Chairman Dr. A.
- V. Krishna Prasad, who emphasized the value of technical communities and student involvement.
- Technical Talks: Mr. Yadunandan STVSS and Dr. Kalyan Sarvepalli delivered inspiring sessions on industry relevance and skill-building.
- Student Body Announcements: The much-awaited announcement of the new CSI student body for the academic year was made, introducing the core team that will lead future initiatives, followed by the introduction of the junior body for 2025–26.
- Felicitation: Guests and contributors were honoured for their continuous support.

Conclusion:

The CSI Orientation 2025 successfully set the tone for a vibrant academic year ahead. It not only informed the students about CSI's mission and vision but also inspired them to become active contributors to the tech community. The event served as a platform to welcome new ideas, celebrate leadership, and encourage collaborative growth.




SESSION 1:

AVENSIS 2k25 - CSI Regional Convention

Date: 20th & 21st June 2025
Venue: E Block, Auditorium, Anurag University
No. of Participants: 250

Summary report on the event:

The Department of Computer Science and Engineering, Anurag University, in collaboration with the Computer Society of India (CSI), successfully organized AVENSIS 2k25 – The CSI Regional Convention, a prestigious event bringing together academicians, industry experts, and aspiring technocrats.







The event commenced with a grand inaugural ceremony attended by prominent dignitaries from academia and the technology industry. The gathering was honored by the presence of:

- ☐ Dr. Subramanyam Sharma, CEO of pfizer and CMD of Sudeeksha Group
- ☐ Mrs. A. Anuradha, Executive Partner, IBM
- ☐ Prof. Dr. Balakita Reddy, who graced the occasion as the Chief Guest
- ☐ Dr. Sudhakar Challapalli, CSI Hyderabad Chairman
- ☐ Dr. Raju Kanchibhotla, Hon. Secretary CSI India

Distinguished dignitaries and senior members from the Computer Society of India (CSI) were also present, lending their esteemed support to the convention.

The event was declared open by Prof. Dr. Balakita Reddy, who emphasized the importance of technological innovation, collaboration, and nurturing young talent in his keynote address.

The convention featured a series of technical talks, providing students with an opportunity to showcase their skills and engage in practical learning.

The most anticipated segment, the hackathon, witnessed enthusiastic participation from students across various institutions. Participants faced complex problem statements designed to test their algorithmic thinking, problem-solving skills, and coding efficiency.

1. Hackathon

The Hackathon served as the centerpiece of the second day, where participants demonstrated their coding expertise, problem-solving abilities, and creative thinking. Working in teams, students tackled real-world challenges in diverse, high-demand domains such as:

- ☐ Artificial Intelligence and Machine Learning (AI/ML)
- ☐ Web and Mobile Application Development
- ☐ Internet of Things (IoT)
- ☐ Blockchain Technology

Participants were tasked with developing functional prototypes or software solutions addressing pressing challenges, showcasing their technical competence, teamwork, and innovative spirit. The competition fostered an

environment of critical thinking, collaboration, and exposure to cutting-edge technologies.





Design-a-thon:

Parallel to the Hackathon, the Design-a-thon provided a platform for participants to unleash their design thinking, focusing on user-centric solutions and visual creativity. From UI/UX design to system architecture and visual presentation, teams delivered innovative concepts and mock-ups that highlighted:

- ☐ Effective User Interface Design
- ☐ Seamless User Experience Solutions
- ☐ Technological Aesthetics and Practicality

The Design-a-thon emphasized the fusion of technical proficiency with creativity, essential for today's technology-driven world.

Tech Talks: The convention is honored to feature insightful presentations from two prominent speakers:

- ☐ Mr. Amit Pandey
- ☐ Mr. Shiv Prasad Rao

The successful commencement of Avensis 2k25 – The CSI Regional Convention marked a significant milestone for the Department of CSE and Anurag University. With the unwavering support of CSI and the dedication of faculty, students, and organizers, the event created a platform for knowledge exchange, innovation, and technical excellence. There was a vibrant cultural

performance, followed by a midnight campfire organized for everyone to enjoy.

The Department expresses gratitude to all dignitaries, participants, and collaborators who contributed to making this event a grand success.

Day - 2

Following the grand inauguration and successful events on June 20th, Avensis 2k25, the two-day CSI Regional Convention, concluded its proceedings with remarkable enthusiasm and participation. Hosted by Anurag University, in association with the Computer Society of India (CSI), the convention brought together budding technologists, innovators, and academicians from across Telangana, Andhra Pradesh, Tamil Nadu, and Karnataka, marking it as a significant regional gathering for promoting technological excellence and collaboration.

The second day of Avensis 2k25 built upon the momentum of the inaugural events with a series of high-energy competitions, insightful sessions, and cultural observances. The day was meticulously designed to combine technical skill-building, innovation, and holistic well-being.

An integral part of Day 2 was the observance of International Yoga Day, reinforcing the importance of physical and mental well-being amidst rigorous technical pursuits. This session aimed to promote mindfulness, relaxation, and holistic health, reminding attendees of the critical balance between intellectual endeavors and personal wellness.

We were honored to have the following certified yoga trainers guide our session:

- Sivakoti Krishna Rao, B.E.: A certified Yoga trainer from Andhra University, Vizag, Mr. Rao is a retired D.G.M. of a Central Public Sector Unit. He currently dedicates his time to conducting free Yoga sessions in Boduppal.
- Sivakoti Kamakshi, B.Com, B.Ed.: Also a certified Yoga trainer from Andhra University, Vizag, Ms. Kamakshi is a retired teacher. Like Mr. Rao, she is currently conducting free Yoga sessions in Boduppal.







The convention concluded with a grand Valedictory Ceremony, celebrating the achievements of participants and recognizing outstanding contributions.

Distinguished Dignitaries Present:

- Dr. G. Vishnu Murthy, Dean, Department of CSE, Anurag University
- Dr. V. Vijaya Kumar, Dean, School of Engineering, Anurag University
- Dr. A.V. Krishna Prasad, Vice Chairman, CSI Hyderabad Chapter
- Mr. C. Sudhakar, Chairman, CSI Hyderabad Chapter

Guest of Honour:

- Mr. P. Bharath, Senior Director of Product Management, Microsoft

Mr. Bharath delivered an insightful address, highlighting current industry trends, the growing role of disruptive technologies, and the importance of building innovative solutions to global challenges.

Chief Guest:

- Dr. A. Chennakesava Reddy, Director, Research & Development Cell, JNTUH Dr. Reddy's inspiring speech emphasized the need for research-driven innovation, interdisciplinary collaboration, and the critical role of youth in shaping the nation's technological future.

The dignitaries lauded the efforts of the participants, faculty, and organizing committee for orchestrating a convention that not only celebrated technology but also encouraged collaboration, creativity, and personal growth.

Avensis 2k25 concluded as a resounding success, marking a significant milestone in regional technological collaboration and knowledge-sharing. Anurag University, in partnership with CSI, reaffirmed its commitment to promoting innovation, academic excellence, and industry-academia partnerships.





Research Tools in ACM

Date: 26th March, 2025

Time: 9:00AM– 4:00 PM

Venue: Anurag University

No. of Participants: 160

Summary report on the event:

The ACM Student Chapter of the Department of Computer Science and Engineering, Anurag University, organized a session on "Research Tools in ACM" for 1st Year CSE Students, on 26th March, 2025.

The main objective of this session was to help students learn how to search scholarly literature, track citations, and use ACM tools for academic projects and research work.

Session Overview -

☐ Introduction to Google Scholar interface and features (searching articles, theses, books; viewing citations; author profiles)

☐ Demonstration of advanced search and filters (date range, phrase search, excluding words)

☐ Using "Cited by", related articles, and alerts to follow research trends.

☐ Overview of ACM Digital Library as a core computing research database and its search tools, filters, and access options.

☐ How to export citations to reference managers from Google Scholar and ACM DL

Key Highlights of the session included:

Overview of Google Scholar and its role as a research discovery tool

Features like citation counts, "Cited by", related articles, and author profiles.

Introduction to ACM Digital Library, collections, and research tools (search, filters, and metrics)

Best practices for finding quality papers for projects, mini-projects, and theses Exposure and Learning Outcomes:

☐ Students understood how to search scholarly literature effectively using Google Scholar across disciplines.library.uregina+3

☐ They learned the importance of citation tracking, research impact, and staying updated in their area through alerts and profiles.resources.nu+2

☐ They gained awareness of ACM Digital Library as a primary source of peer-reviewed computing research, and how to navigate it.libraries.acm+1

☐ The session motivated students to use proper scholarly sources instead of random web pages for assignments and research work.

Conclusion:

The awareness session on Google Scholar and ACM research tools was a successful and enriching experience for the students. It significantly enhanced their understanding of scholarly search platforms, citation tracking, and accessing peer-reviewed computing literature. The initiative by the ACM Student Chapter contributed greatly to bridging the gap between academic coursework and professional research practices, motivating students to leverage these tools for their projects and theses.





05 | Career Development

Anurag University supports students in preparing for their future careers by providing opportunities to understand different career pathways, develop industry-relevant skills and learn about professional work environments. These activities help students connect their academic learning with the expectations of the workplace.

2025 Career Development Highlights

Program	Focus
Tech Talks: Career Mapping into Tech – Turning Ambitions into Actions	Understanding career pathways and converting career goals into practical steps
From Classroom to SAP Consultant: Your Gateway to Global Opportunities	Introduction to SAP careers and opportunities in the global technology sector

In addition to these dedicated career programmes, students also gained professional skills through technical workshops and industry-oriented learning activities conducted during the year.

These initiatives encourage students to make informed career choices and develop the technical, professional and adaptive skills required for further education and employment.

Tech Talks: Career mapping into tech: Tiring ambitions into actions

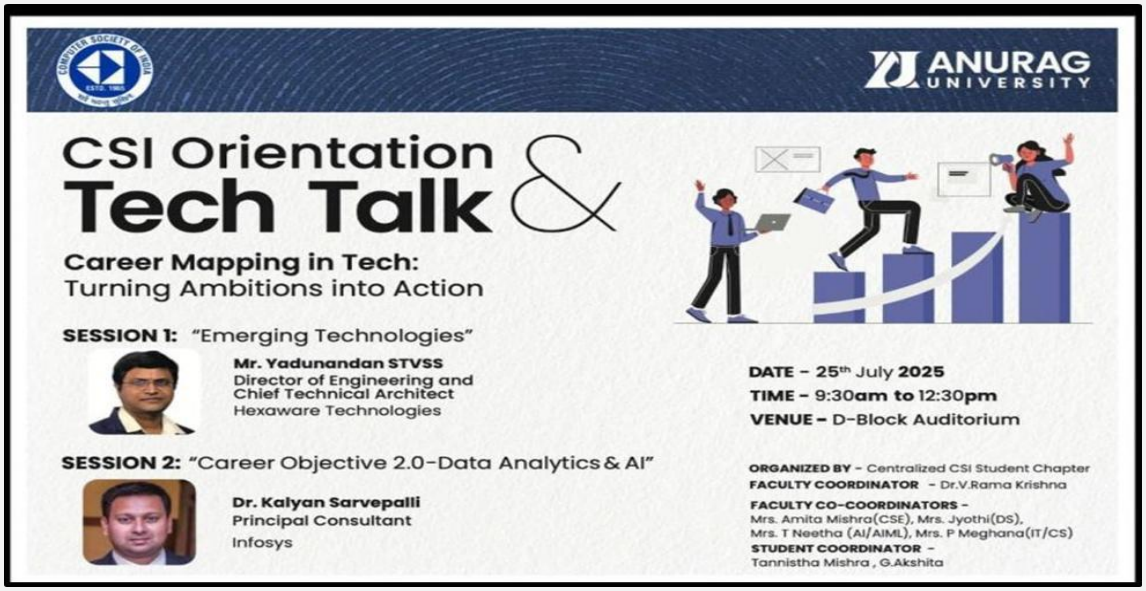
Date: 23-07-2025

Time: 9:30AM– 12:30 PM
Venue: D-Auditorium, Anurag University
No. of Participants: 150

Summary report on the event:

A one-day event titled "Tech Talks: Career Mapping into Tech – Turning Ambitions into Actions" was organized under the banner of Computer Society of India (CSI) Orientation 2025, hosted by the Department of AI and CSE Allied branches.

The objective of the event was to provide students with insights into emerging technologies, data analytics, and AI-driven careers, while motivating them to translate their ambitions into actionable career strategies.



Key Highlights:

☐ Opening Session: The event began with student gathering, guest welcome, and a ceremonial lamp lighting.

☐ Guest Addresses: Speakers included Dr. V. Rama Krishna and CSI Chairman Dr. A.

V. Krishna Prasad, who emphasized the value of technical communities and student involvement.

☐ Technical Talks: Mr. Yadunandan STVSS and Dr. Kalyan Sarvepalli delivered inspiring sessions on industry relevance and skill-building.

☐ Student Body Announcements: The much-awaited announcement of the new CSI student body for the academic year was made, introducing the core team that will lead future initiatives, followed by the introduction of the junior body for 2025–26.

☐ Felicitation: Guests and contributors were honoured for their continuous support by the faculty coordinators Ms T.Neetha (Dept. of AI) ,Ms Amita Mishra(Dept. of CSE) and Ms Jyoti(Dept. of DS)

Session 1:

Emerging Technologies

Speaker: Mr. Yadunandan STVSS, Director of Engineering and Chief Technical Architect, Hexaware Technologies

Mr. Yadunandan delivered an insightful session on emerging technologies, highlighting the latest advancements in cloud computing, automation, and AI-driven enterprise solutions. He emphasized the importance of being future-ready by adapting to the rapid technological changes. The session encouraged students to focus on innovation, problem-solving, and continuous learning.

Afternoon Session Speaker

Career Objective 2.0 – Data Analytics and AI Speaker: Dr. Kalyan Sarvepalli

Principal Consultant, Infosys

Dr. Kalyan shared his expertise on Data Analytics and Artificial Intelligence, positioning them as critical pillars of modern IT careers. He discussed real-world applications, industry use cases, and strategies for students to align academic learning with industry requirements. His session inspired students to set clear career goals and work systematically toward achieving them.

Conclusion:

The CSI Orientation 2025 successfully set the tone for a vibrant academic year ahead. It not only informed the students about CSI's mission and vision but also inspired them to become active contributors to the tech community. The event served as a platform to welcome new ideas, celebrate leadership, and encourage collaborative growth.





One Day Session on from Classroom to SAP Consultant: Your Gateway to Global Opportunities

Date: 18-07-2025

Time: 11: 00 AM to 4:05 PM

Venue: H 315, Anurag University

No. of Participants: 192

Summary report on the event:

A one-day expert session titled "From Classroom to SAP Consultant: Your Gateway to Global Opportunities" was organized for III B. Tech students under the banner of Computer Society of India (CSI) in collaboration with the Industry-Institute Interaction Cell (III Cell).

The goal of the session was to introduce students to non-coding career opportunities in SAP Functional Consulting, with practical insights into industry roles, required skills, and a roadmap to becoming SAP consultants.

Session 1:

Mr. Sandeep Tangellapally Senior Consultant, IBM

With over 12 years of experience in SAP MM, SRM, and IS-OIL, Mr. Sandeep shared his professional journey and discussed the scope of SAP careers across industries. He explained various SAP functional modules, integration concepts,



data migration techniques, and global job roles. Students were highly engaged during the interactive Q&A session that followed.

Afternoon Session Speaker

Mr. Shashank Kamaraju

Senior Consultant & Product Owner, Deloitte

Mr. Shashank, a globally certified SAP S/4 HANA Consultant, addressed advanced topics such as project lifecycle, global rollouts, cutover planning, and product ownership in SAP environments. With experience working for clients like AGCO, MARS, and Apple, he inspired students with real-time case studies and industry use cases.



Research Contributions

Anurag University's research activities contribute to SDG 4 by promoting innovative teaching practices, technology-enabled learning, inclusive education and improved approaches to student assessment and engagement.

Research Area	Key Areas Covered	Contribution to SDG 4
Innovative Teaching Practices	Problem-based learning, project-based learning, collaborative learning, active learning, contemporary engineering education	Strengthens classroom learning and encourages active student participation
Digital Technologies & AI	Artificial intelligence, augmented reality, digital twins, e-learning, automated grading, performance evaluation, student assistance systems	Supports technology-enabled, flexible and personalized learning and assessment
Curriculum & Educational Innovation	STEM integration, project-based learning, curriculum design, NEP 2020 alignment	Supports contemporary, interdisciplinary and industry-relevant education
Inclusive Education	Special education, learning disabilities, Individual Education Plans, intellectual disabilities, sign language recognition	Promotes accessibility, participation and learning opportunities for diverse learners
Student Development & Support	Student performance, learning experiences, student anxiety, academic support	Provides insights for student-centered interventions and improved learning experiences
Student Assessment & Engagement	Automated assessment, attendance, learner engagement, performance evaluation	Supports improved assessment practices and greater understanding of student participation and progress

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

Title	Journal	Home Authors
Federated Learning Framework for Consumer IoMT-Edge Resource Recommendation Under Telemedicine Services	IEEE Transactions on Consumer Electronics	Debajyoty Banik
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
Malignancy Detection in Lung and Colon Histopathology Images by Transfer Learning with Class Selective Image Processing	Recent Advances in Computer Science and Communications	Dastagiraiah C
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
Leveraging augmented reality in education involving new pedagogies with emerging societal relevance	Discover Sustainability	Archana Mantri
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
Pedagogical approaches to collaborative learning: An analytical study	AIP Conference Proceedings	Mahammad Ghouse Shaik
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
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
Efficient Diabetic Retinopathy Detection Using CNNs and Transfer Learning for Feature Extraction and Classification	2025 6th International Conference on Mobile Computing and Sustainable Informatics (ICMCSI)	Kachapuram Basava Raju
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
Mathematical Analysis of an Optimal Control Problem for Mitigating HPV Transmission and Cervical Cancer Progression through Educational Campaigns	Iranian Journal of Science	R Praveen Kumar
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
BOOSTING STUDENT PERFORMANCE PREDICTION IN E-LEARNING: A HYBRID FEATURE SELECTION AND MULTI-TIER ENSEMBLE MODELLING FRAMEWORK WITH FEDERATED LEARNING	Journal of Theoretical and Applied Information Technology	M Madhavi
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
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
Enhancing Diabetic Retinopathy Classification Using Deep Learning with Data Augmentation Techniques	Cognitive Science and Technology	Deepthi K
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
Adaptive Learning Systems for English Language Education based on AI-Driven System	2025 International Conference on Intelligent Systems and Computational Networks (ICISCN)	Arabati Pradeep Kumar
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
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
Optimizing Class Timing: AI Driven Group Engagement's Role in Academic Success	Journal of Information Technology Education: Research	P Chakradhar
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
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
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

Innovative Computer Science Curriculum Design: Integrating STEM and Project-Based Learning in Accordance with NEP 2020 – A Case Study on Web Technologies	Journal of Engineering Education Transformations	Lakshmi Prasanna Byrapuneni; P V Kumar; Pravin Ramesh Gundalwar
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
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
Cryptocurrency Price Prediction using Deep Learning Algorithms: A Comparative Study	Communications on Applied Nonlinear Analysis	Pappula Ashok; Ameen Saheb Shaik
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
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	Niteesha Sharma; T Ashalatha; T Manyam; Punnamaneni Lasya; Bhavitha Donapati; Madduri Sarayu

	Internet of Things (AIMLA)	
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
A Full-Fledged Stock Market Prediction Framework using Adaptive TCN with a Bayesian Learning Network via Enhanced Good and Bad Groups-Based Optimizer	Computational Economics	Rakesh Roshan; Dr. Biksham V; Dr.Kumar Neeraj; Vangapally Raju
Implementing W-Net deep learning for terahertz image enhancement and segmentation	Engineering Research Express	Dibakar Roy Chowdhury
Machine Unlearning in MRI Reconstruction to Balance Privacy Protection and Model Performance Trade-Offs	Lecture notes in networks and systems	Kasu Mamatha; Debajyoty Banik
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	Physics of Fluids	Bhanoth Rajender; Shravan Kumar R

convection past a rotating cone with Soret and Dufour effects		
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
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
Development of a virtual reality system for aquatic ecosystem exploration and education	International Journal of Aquatic Research and Environmental Studies	Mekala Ishwarya
PRECISION AGRICULTURE THROUGH BIOCHEMICAL UREASE-AWARE CROP YIELD PREDICTION USING ENHANCED FUZZY LOGIC AND DEEP LEARNING	Smart Agricultural Technology	V Jyothi; G Vishnu Murthy
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
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
Smart Healthcare System Using Machine Learning Techniques for Multi-Disease Prediction	2025 6th International Conference on Data Intelligence and Cognitive Informatics (ICDICI)	Y Sowjanya; Niteesha Sharma; T Asha Latha; 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
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
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
TriHAtt-BERT-DBiLSTM: Deep learning model for medical emergency prediction from the unstructured data	Expert Systems with Applications	Amita Mishra
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

Teaching-learning-based optimization of ultrasonic welding parameters for enhanced copper joint strength: A comparative study with Taguchi and GRA	Aip Conference Proceedings	Dr Jush Kumar Siddani; Dr.L Srinivas Naik; Dr. Kolluri Srinivasa Chalapathi
Fake Job Posting Detection using Machine Learning Algorithms	2025 4th International Conference on Innovative Mechanisms for Industry Applications (ICIMIA)	K Ramakrishna Reddy
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
Utilizing Transfer Learning Approach for Epidemiological Study of Region-Specific Post-Acute Sequelae of SARS-COV-2	Journal of Visualized Experiments	G Sucharitha
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
Leveraging Ensemble Learning for Reliable Crop Yield Prediction	2025 International Conference on Innovations in Intelligent Systems: Advancements in Computing, Communication, and Cybersecurity (ISAC3)	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 Intelligent Technologies (CONIT)	Thota Akshaya; Ganji Shruthi; Pavan Sai Mohan Arige; Medikonda Asha Kiran; T Manyam; Pravin Ramesh Gundalwar
LoRA-Enhanced BERT with Contrastive Learning for Political Sentiment Analysis	2025 5th International Conference on Intelligent Technologies (CONIT)	Ramesh Babu Pittala; Shruti Agarwal; Medikonda Asha Kiran; T Manyam; Md Arbaaz Khan; G Sai Aparna
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
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
Practical simulation techniques: Magical teaching approach of geotechnical engineering	GeoVadis	Badry Pallavi

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
Enhanced Emotion Recognition via Multi-Sensor Data Fusion and Machine Learning	2025 3rd World Conference on Communication & Computing (WCONF)	Medikonda Asha Kiran
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
Meta-Learning For Image Forgery Detection: Tackling Class Imbalance With Focal Loss And Oversampling	International Journal of Electronics and Communication Engineering	M Samel; A Mallikarjuna Reddy

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 approach 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
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 Hyper parameter Tuning Approach	Asian Journal of Statistical Sciences	Vijayakumar Yelsani
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
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
IMPACT OF THE USAGE OF ICT TOOLS IN THE TEACHING OF ENGLISH LANGUAGE TO INTERMEDIATE STUDENTS IN MAHBUBNAGAR DISTRICT	EPRA International Journal of Multidisciplinary Research (IJMR)	Vemula Sravanthi
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
Ensemble Learning-Based Mental Analysis and Prediction of Mental Disorder	2025 International Conference on Sustainability,	Dr C Dastagiraiah

	Innovation and Technology (ICSIT)	
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
SmartClassVue: Video-Based Automated Student Behavior Monitoring in Offline Classrooms	Lecture Notes in Educational Technology	P Chakradhar
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
Comparative analysis of machine learning classifiers based on fingerprint and face authentication	Aip Conference Proceedings	Vootla Sreeyah
The scalable cloud-based reinforcement learning for multimedia data in cognitive Neuroscience for secure healthcare analysis	JOURNAL OF INFORMATION AND OPTIMIZATION SCIENCES	G Sucharitha
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