

# Sakshin

Monthly Newsletter of Dept. of CSE

2026

JANUARY

## VISION

Nurturing globally competent Computer science and Engineering graduates capable of taking challenges in the industry and Research & Development activities.

## MISSION

M1. Imparting quality education to meet the needs of industry, and to achieve excellence in teaching and learning.

M2. Inculcating value-based, socially committed professionalism for the development of society.

M3. Providing support to promote quality research.



## ABOUT ASIET

Adi Shankara Institute of Engineering & Technology in Kalady, established by the Adi Sankara Trust, aims to provide value-driven technical education that promotes professional excellence and ethical values. Under the blessings of the Jagadgurus of Sringeri Sharada Peetham, the trust has over 50 years of experience in managing educational institutions. The institute focuses on the holistic development of its students.

## Participation of Adi Shankara Institute of Engineering in DICEGAI 2026



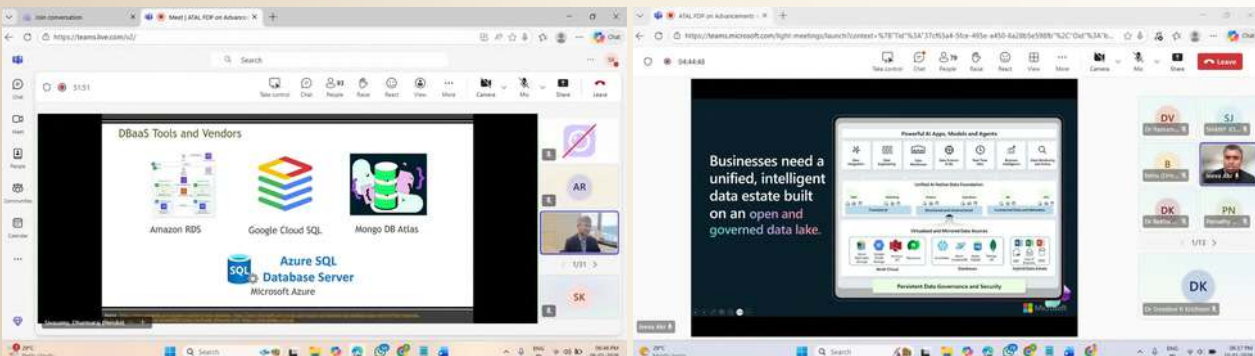
Adi Shankara Institute of Engineering and Technology proudly marked its international presence by participating in the 1st Dubai International Conference & Exhibition on Green Artificial Intelligence for a Green Planet (DICEGAI 2026), held on 24–25 January 2026 at the Dubai Police Academy, United Arab Emirates. DICEGAI 2026 brought together academicians, researchers, industry experts, policymakers, and innovators from around the world to explore the transformative role of Artificial Intelligence in promoting environmental sustainability. The conference highlighted key themes such as AI-driven climate modeling, smart energy management, sustainable urban development, green computing, renewable energy optimization, and intelligent environmental monitoring systems.

Faculty representatives from the institute actively participated in technical sessions, discussions, and exhibitions, contributing to meaningful dialogues on leveraging emerging technologies for environmental preservation. The event served as a valuable platform for knowledge exchange, exposure to global research trends, and building international academic and research networks. In recognition of its valuable contribution, the institute was honored with a Certificate of Appreciation, reflecting its commitment to research excellence, innovation, and global collaboration in sustainable technology. The conference also opened avenues for future partnerships, joint research initiatives, and academic collaborations.

Participation in DICEGAI 2026 reinforces the institute's vision of integrating advanced technology with environmental responsibility. This achievement marks another milestone in its journey toward academic excellence and global engagement in shaping a greener and more sustainable future.



Their meticulous planning, academic vision, and systematic coordination ensured the smooth execution of the programme. The organizing team successfully managed registrations, scheduling, session coordination, and participant engagement, thereby maintaining high academic standards throughout the six days. The inaugural session marked the formal commencement of the FDP. The objectives, structure, and expected outcomes of the programme were clearly outlined, emphasizing the importance of continuous professional development in rapidly evolving technological domains. The session highlighted the growing relevance of cloud and edge computing in areas such as smart cities, IoT ecosystems, cybersecurity, healthcare systems, and intelligent industrial automation. The inaugural proceedings set a strong academic tone for the subsequent technical sessions



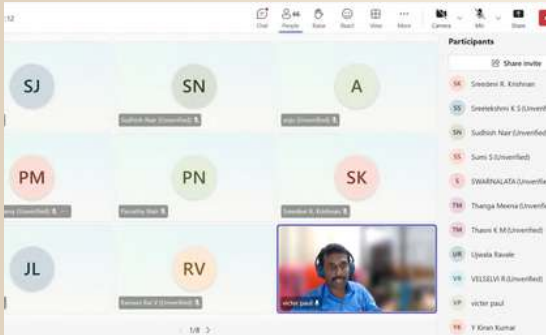
The FDP featured eminent resource persons from prestigious academic institutions and leading multinational companies, ensuring a balanced blend of theoretical foundations and practical industry insights. The distinguished speakers included MR. JEEVA A. K. R., GLOBAL LEADER – AZURE ANALYTICS, STRATEGY AND SALES, MICROSOFT, NEW YORK , MR. DHARMA SIVASAMY, SENIOR DIRECTOR – SOFTWARE ENGINEERING, PENSKE, PENNSYLVANIA, UNITED STATES , Dr. Rajesh Kedia, Assistant Professor, IIT Hyderabad , Mr. Joby Joseph, Cloud Technology Head, Tata Consultancy Services (TCS) , Mr. Jacob Thomas, Delivery Manager, Tata Consultancy Services (TCS) , Mr. Pawan Verma, Cybersecurity Business Development Manager, Tata Consultancy Services (TCS) ,Dr. P. Victor Paul, Assistant Professor, Indian Institute of Information Technology (IIIT) Kottayam, Dr. Ragesh G. K., Associate Dean – Industry Relations and Fundings, IIIT Kottayam; Ms. Anju J. D., Cyber Security Manager, Ernst & Young (EY); Mr. Hitender Saxena, Lead Technologist, Ernst & Young (EY); Mr. Sudhish N. Nair, Senior Software Maintenance Engineer, Red Hat India Private Ltd; Dr. Ramani Bai V, Professor and Head, CSE, ASIET; and Dr. Ajay Kumar, Professor and Head, ECE, ASIET.

The first day of the FDP focused on foundational concepts in cloud computing. The introductory session provided a comprehensive overview of cloud service models such as Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS), along with deployment models including public, private, and hybrid clouds.



Participants gained clarity on virtualization technologies, hypervisors, and resource allocation strategies that enable scalable and cost-effective computing environments. The sessions emphasized how virtualization forms the backbone of modern cloud infrastructures, enabling efficient management of computing resources.

The second day concentrated on advanced cloud technologies and architectural paradigms. The session on database services in cloud environments addressed data storage architectures, distributed databases, scalability mechanisms, and reliability frameworks. Participants explored real-world case studies demonstrating how enterprises leverage cloud databases for high availability and performance optimization. Another key session on serverless computing explained event-driven architectures, Function-as-a-Service, and performance tuning strategies. The discussions highlighted how serverless platforms reduce operational overhead while improving scalability and efficiency. The third day extended the discussion toward the application of cloud technologies in research, industry, and education. The session on cloud in research and industry explored large-scale enterprise implementations, big data analytics, and AI-driven cloud solutions. Participants were introduced to practical frameworks used in corporate environments to deploy and manage cloud-native applications.



The session on cloud in education emphasized the role of cloud platforms in virtual laboratories, remote experimentation, collaborative learning systems, and curriculum modernization. The integration of cloud technologies into academic ecosystems was presented as a transformative approach to enhance teaching and learning outcomes.

The fourth day shifted focus toward distributed computing paradigms, particularly edge and fog computing. The session on edge computing examined decentralized data processing architectures that reduce latency and improve real-time responsiveness. Applications in autonomous systems, healthcare monitoring, and smart infrastructure were discussed in detail. The complementary session on fog computing illustrated how intermediate processing layers bridge the gap between cloud and edge devices. Participants gained insights into how fog architectures enhance bandwidth utilization and improve data processing efficiency in large-scale IoT environments.

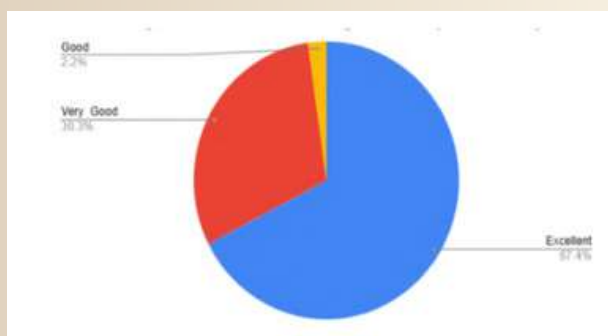
The fifth day explored the convergence of IoT, machine learning, and edge intelligence. The session on IoT and machine learning highlighted how intelligent algorithms are deployed in edge environments to enable predictive analytics, anomaly detection, and smart automation.

Real-time processing of sensor data and adaptive decision-making systems were discussed as critical components of modern distributed ecosystems. The session on edge IoT integration provided architectural perspectives and practical challenges involved in deploying integrated systems across heterogeneous networks. The final day of the FDP emphasized cybersecurity and integrated system frameworks. The session on security in cloud environments addressed threat models, compliance standards, encryption strategies, and risk mitigation practices. Participants were introduced to best practices for safeguarding sensitive data in multi-tenant cloud infrastructures. The session on cybersecurity in edge computing discussed security vulnerabilities unique to distributed edge nodes and strategies to ensure secure communication and data integrity. The concluding session on cloud-edge-IoT integration provided a strategic overview of how these technologies converge to create scalable, secure, and intelligent digital ecosystems.

Throughout the six days, the FDP maintained a high level of participant engagement. Faculty members from various institutions actively interacted with resource persons, raised thought-provoking questions, and shared research perspectives. The interactive nature of the sessions facilitated collaborative learning and encouraged participants to explore new research directions. The programme successfully fostered an environment that promoted innovation, critical thinking, and interdisciplinary collaboration.

The valedictory session marked the formal conclusion of the programme. The organizing team reflected on the key takeaways and acknowledged the valuable contributions of the distinguished speakers.

Participants expressed appreciation for the well-structured schedule, comprehensive coverage of topics, and practical orientation of the sessions. The overall feedback indicated that the FDP significantly enhanced participants' understanding of cloud and edge technologies and strengthened their research and teaching competencies.



The six-day ATAL Sponsored FDP stood as a landmark academic initiative that reinforced ASIET's commitment to excellence in technical education and research. By bringing together experts from globally reputed organizations and premier academic institutions, the programme successfully bridged the gap between theory and practice. It

contributed meaningfully to faculty enrichment, curriculum enhancement, and research advancement in the rapidly evolving domains of cloud and edge computing. The event reflected the institution's sustained efforts to promote innovation-driven learning, academic collaboration, and impactful research aligned with contemporary technological advancements.

## ASIET Staff Cricket Team Crowned Champions at All Kerala Staff Cricket Tournament.



It was a proud moment for Adi Shankara Institute of Engineering & Technology (ASIET) as the ASIET Staff Cricket Team emerged as champions of the All Kerala Staff Cricket Tournament organized by UKF College of Engineering, Kollam. The tournament witnessed the participation of 21 staff teams from various institutions across Kerala, providing a highly competitive and enriching platform for all participants.

The championship victory reflected the team's strong spirit, coordination, and sportsmanship, and the event proved to be a valuable experience and exposure for the players. The institution extended heartfelt congratulations to all team members for their outstanding performance and well-deserved achievement.

## DEXTRA'26: CSE Association Day



The Department of Computer Science and Engineering, Adi Shankara Institute of Engineering and Technology, successfully organized DEXTRA '26 – CSE Association Day on 9th January 2026. The event marked the formal inauguration of the CSE Association activities for the academic year and aimed at fostering technical aptitude, creativity, innovation, and collaborative learning among students through a blend of online and offline events.

The Presidential Address was delivered by Dr. Murali M S, Principal, ASIET.

The Inaugural Address and Lamp Lighting Ceremony was led by the chief guest, Mr. Varun P Nair, Founder and Managing Partner, Ayam Group of Companies.

The programme continued with the Felicitation, during which Mr. P. V. Rajaraman, Chief Technology Officer, ASIET, and Dr. Ramani Bai V, Head of the Department – CSE, addressed the gathering.

As part of DEXTRA '26, various online and offline events were conducted to ensure inclusive participation and to engage students with diverse interests.

### ***Mind Maze – Virtual Treasure Hunt***

The Mind Maze – Virtual Treasure Hunt, organized by the CSE Association, was conducted with the objective of enhancing students' problem-solving skills, logical reasoning, and research abilities through a competitive and intellectually engaging virtual challenge.



### **AR Art Gallery**

The AR Art Gallery, organized by the CSE Association, was conducted with the aim of demonstrating the application of Augmented Reality (AR) in the field of visual arts. The event focused on introducing students to emerging technologies and their role in enhancing creative presentation and interaction.

### **Blind Coding**

The Blind Coding event, organized by the CSE Association, was conducted with the objective of evaluating participants' programming accuracy, logical thinking, and adaptability without relying on integrated development environment (IDE) assistance. The event aimed to strengthen core coding fundamentals and promote precision in programming.



### **Brain Byte - Tech Quiz**

The Brain Byte - Tech Quiz, organised by the CSE Association, was conducted with the objective of testing students' knowledge and awareness in the field of technology and computer science. The event aimed to spark curiosity, encourage critical thinking, and promote healthy academic competition among participants.

### **Bug Busters - QA Challenge**

The Bug Busters - QA Challenge, organized by the CSE Association, was conducted with the objective of introducing students to the fundamentals of software testing and quality assurance through a competitive and engaging format. The event aimed to develop participants' attention to detail, logical reasoning, and analytical skills.

### **Capture The Flag**

The Capture The Flag (CTF) event was organized with the objective of introducing students to the fundamentals of cybersecurity through a competitive and problem-solving-based environment. The event aimed to enhance participants' analytical thinking, teamwork, and technical skills while providing exposure to real-world cybersecurity challenges.



**Designexa – UI/UX Design Challenge**

The Designexa – UI/UX Design Challenge, organized by the CSE Association, was conducted with the aim of encouraging students to explore creativity, usability, and visual design principles in the field of user interface and user experience design. The event focused on enhancing participants' ability to analyze design problems and propose effective UI/UX solutions.

**Metaverse – VR Experience**

The Metaverse – VR Experience, organized by the CSE Association, was conducted with the objective of introducing students to Virtual Reality (VR) technology and its practical applications. The event aimed to create awareness about immersive technologies and to provide students with first-hand exposure to VR-based systems.

**Mind the Bug – Debugging Challenge**

The Mind the Bug – Debugging Challenge, organized by the CSE Association, was conducted with the objective of strengthening participants' logical reasoning, programming knowledge, and problem-solving skills through a focused debugging-based competition.

**Pitch It – Idea Pitching Competition**

The Pitch It – Idea Pitching Competition, organized by the CSE Association, was conducted to encourage students to think innovatively and propose solutions to real-world problems through structured idea presentation. The event focused on fostering creativity, critical thinking, teamwork, and effective communication skills.

**SprintX – Designathon**

The SprintX – Designathon, organized by the CSE Department, was conducted with the objective of encouraging students to apply design thinking, creativity, and decision-making skills under time constraints. The event focused on testing participants' ability to transform ideas into visually engaging and functional designs within a limited timeframe.

**Other events include :**

Da Vinci Code – Treasure Hunt  
 FIFA Faceoff  
 Prompt n Roast  
 Battle Arena – BGMI  
 Match Point – Valorant

Dead Lock – Murder Mystery  
 Minute to Win It  
 Super Tux GP – Tux Cart  
 Goal Gala – E Football

## S8 Advisory Committee Meeting



The first advisory meeting for Semester 8 was conducted with the objective of reviewing the academic progress of students and discussing important matters related to placements, projects, and overall professional development. The meeting focused on regular classroom attendance, participation in placement drives, the significance of final year projects, and the importance of presenting and publishing papers in conferences.

During the discussion, the cumulative pass percentage and academic performance of each class group were reviewed in detail. The progress of students was analyzed batch-wise, and the number of students placed from each batch was also discussed. Students were strongly advised to secure at least one placement offer before the completion of the course. Emphasis was given to consistent classroom attendance and active participation in placement activities, as both were considered mandatory for academic and professional growth.

The importance of final year projects was highlighted, and students were instructed to ensure the quality and originality of their work. It was communicated that projects must be properly implemented and hosted either on the web or on a functional system to demonstrate practical applicability. Students were also encouraged to submit their projects to recognized conferences and to actively participate in paper presentations to enhance their academic profile.

Several key decisions were taken during the meeting. It was decided that all students must ensure participation in placement drives, both on-campus and off-campus. The department resolved to promote and guide students in identifying various placement opportunities. It was also decided that proper monitoring would be carried out to ensure that students registered their projects for conferences. Additional training sessions were planned to help students successfully clear aptitude tests, technical rounds, and other assessment stages of placement drives. Furthermore, professionalism in answer sheets and examination presentation was to be verified and improved.

The meeting was attended by Dr. Ramani Bai V, Shany Jophin, and Jerin Varghese. As a follow-up to the discussions, actions were initiated to increase student participation in placement drives. Additional training and mentoring sessions were planned to strengthen students' performance in placement assessments. Continuous monitoring was proposed to track student progress and implement necessary measures to enhance the overall placement percentage of the batch.

## One Day International Colloquium on Quantum and Exponential Technologies Successfully Concluded.



The IQAC and Research Cell of Adi Shankara Institute of Engineering and Technology (ASIET), Kalady, successfully organized a One Day International Colloquium titled “The Global Quantum & Exponential Technologies Meet - India 2026: Understanding the Exponential Shift (India)” on 17 January 2026 at the Main Seminar Hall, ASIET. The event was conducted in hybrid mode, bringing together eminent international and national experts from academia, research organizations, and industry.

The colloquium featured a series of insightful technical sessions addressing emerging trends in quantum computing, artificial intelligence, cybersecurity, semiconductor technologies, global digital governance, and exponential technologies. Distinguished speakers, including Dr. May Sisik, Dr. Joseph Niemela, Dr. Gregory Carpenter, Dr. Gordon Harling, Dr. Dario Claudio Dell’Accio, Dr. Luigi Serio, and Dr. Thomas Clausen, shared their expertise on topics ranging from quantum biology and national resilience to ethical AI, cybersecurity, and quantum-enabled systems.

The program facilitated meaningful discussions on innovation, international collaboration, and workforce transformation in the era of exponential technologies. The event was supported by reputed international collaborators and knowledge partners, reinforcing ASIET’s commitment to global academic engagement and research excellence. The colloquium concluded with positive feedback from participants and marked a significant step toward fostering interdisciplinary dialogue and global cooperation in advanced technologies.

## ASIET Staff Cricket Team Clinches Third Consecutive Championship!

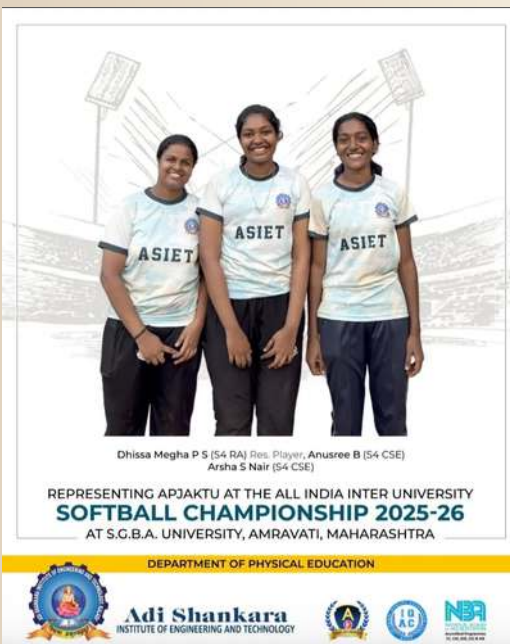


It was a proud moment for Adi Shankara Institute of Engineering & Technology (ASIET) as the ASIET Staff Cricket Team emerged as champions of the All Kerala Staff Cricket Tournament organized by UKF College of Engineering, Kollam. The tournament witnessed the participation of 21 staff teams from various institutions across Kerala, providing a

highly competitive and enriching platform for all participants.

The championship victory reflected the team's strong spirit, coordination, and sportsmanship, and the event proved to be a valuable experience and exposure for the players. The institution extended heartfelt congratulations to all team members for their outstanding performance and well-deserved achievement.

## ASIET Students Represented APJAKTU at the All India Inter University Softball Championship 2025–26



Students from Adi Shankara Institute of Engineering and Technology (ASIET) successfully represented APJ Abdul Kalam Technological University (APJAKTU) at the All India Inter University Softball Championship 2025–26, which was held at S.G.B.A. University, Amravati, Maharashtra. The championship witnessed participation from universities across the country, highlighting a high level of competition and sportsmanship.

The ASIET team comprised Dhissa Megha P S (S4 RA), Anusree B (S4 CSE), and Arsha S Nair (S4 CSE), who demonstrated commendable skill, teamwork, and dedication throughout the tournament. Their participation reflected the institute's strong emphasis on promoting sports alongside academic excellence.

The event was facilitated by the Department of Physical Education, ASIET, and marked a proud moment for the institution. The students' representation at the national level underscored ASIET's commitment to nurturing talent and encouraging holistic development through active involvement in competitive sports.

## Dextra Prize Distribution Ceremony Successfully Conducted.



The Dextra Prize Distribution Ceremony was successfully conducted at Adi Shankara Institute of Engineering and Technology (ASIET) to recognize and reward students for their outstanding performance and achievements. The event served as a platform to appreciate excellence in academics, technical activities, and co-curricular engagements.

Prizes were distributed to the deserving students in the presence of faculty members and organizers, encouraging a culture of motivation and healthy competition. The ceremony highlighted the institution's commitment to nurturing talent and promoting academic excellence among its students.

## Republic Day Celebrations at ASIET



Adi Shankara Institute of Engineering and Technology commemorated Republic Day with a solemn and patriotic programme organized on campus. The celebration began with the hoisting of the national flag and the rendition of the national anthem, followed by a pledge ceremony led by the National Service Scheme volunteers, reaffirming the collective commitment to the ideals and values of the Indian Constitution. Faculty members, staff, students, and NSS volunteers participated actively, reflecting a strong sense of unity, discipline, and national pride. The programme highlighted the spirit of civic responsibility and made the occasion meaningful and memorable for the ASIET community.

## ASIET Students Represented APJAKTU at the All India Inter-University Netball Championship 2025–26.



Students from Adi Shankara Institute of Engineering and Technology successfully represented APJ Abdul Kalam Technological University at the All India Inter-University Netball Championship 2025–26 held at Krishna University, Andhra Pradesh, and SAGE University, Bhopal. Bhagyashree Sathianarayanan Menon (S2 EBE, First Reserve Player), Fiya Sabu (S8 CSE), Arun Nand B S (S8 CSE AI), and Lakshman T R (S4 CSE, First Reserve Player) showcased commendable sportsmanship and competitive spirit during the championship. Their participation reflected the institute's strong commitment to promoting excellence in sports alongside academics.

## Dr. Deepa Devassy Published Research in SCI-Indexed Journal.

Dr. Deepa Devassy, Associate Professor in the Department of Computer Science and Engineering, published a research paper titled “Adaptive Hybrid Deep Learning for Smart Grid Cybersecurity: Integrating ST-GNN, Transformers, and Feature Fusion” in the SCI-indexed journal Energy Exploration and Exploitation, published by SAGE. The publication marked a significant academic achievement and reflected the department’s continued focus on high-quality and impactful research.



The research presented an advanced hybrid deep learning framework aimed at enhancing cybersecurity in smart grid systems. The study addressed the growing challenges associated with sophisticated cyber threats, including Distributed Denial of Service (DDoS) attacks and false data injection attacks, which posed serious risks to modern energy infrastructure. Traditional security mechanisms were identified as insufficient in handling the complexity and dynamic behavior of such attacks.

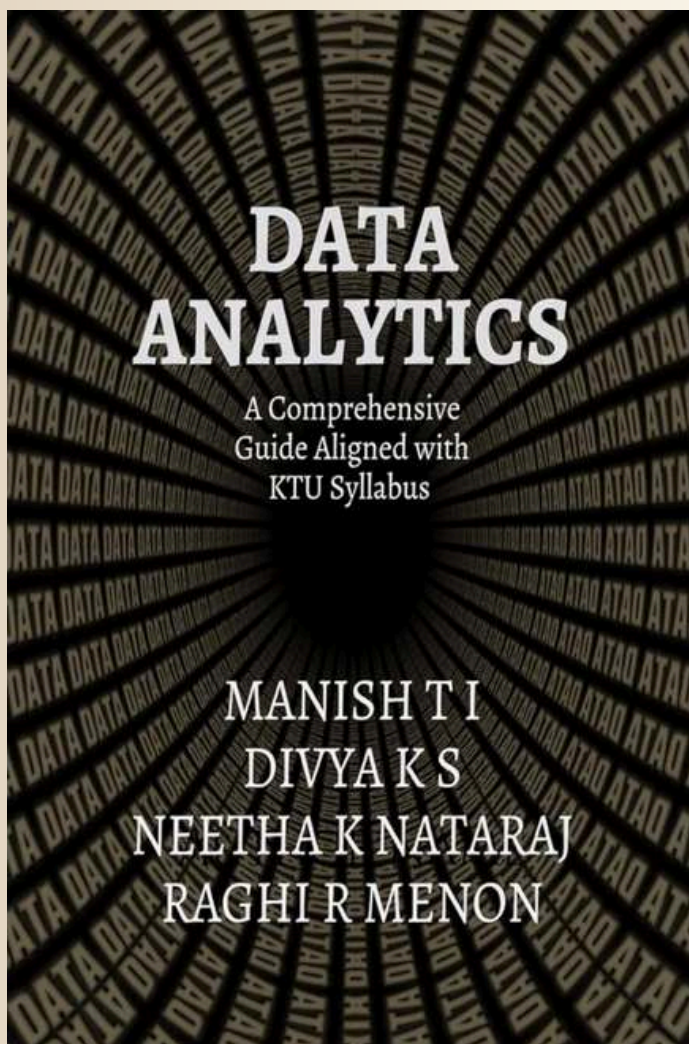
To overcome these limitations, the proposed model integrated Spatial-Temporal Graph Neural Networks (ST-GNN), multi-scale transformer architectures, and adaptive attention-based feature fusion techniques. The Spatial-Temporal Graph Neural Network component captured the structural and time-dependent relationships within network traffic data, while the transformer models enhanced contextual learning through advanced attention mechanisms. The adaptive feature fusion strategy further strengthened the model by effectively combining multiple representations of data to improve detection performance.

In addition, the research incorporated contrastive self-supervised learning to address the issue of data imbalance, which is a common challenge in cybersecurity datasets. This approach significantly improved detection accuracy and enabled the system to identify complex attack patterns with greater reliability.

The study demonstrated superior performance compared to conventional machine learning and standalone deep learning approaches, achieving improved accuracy, reduced false alarms, and enhanced adaptability to evolving cyber threats. The publication represented a substantial contribution to the field of smart grid security and reinforced the institution’s commitment to innovation-driven research and academic excellence in emerging technological domains.

## Book Release: Data Analytics – A Comprehensive Guide Aligned with the KTU Syllabus.

We were pleased to announce the publication of Data Analytics: A Comprehensive Guide Aligned with the KTU Syllabus, authored by Ms. Divya KS and her co-authors. The book was released as a valuable academic resource aimed at supporting both students and educators. It was carefully designed to provide a clear, structured, and curriculum-focused understanding of Data Analytics, strictly aligned with the syllabus prescribed by APJ Abdul Kalam Technological University (KTU). The publication marked a significant contribution to academic learning by bridging theoretical concepts with practical insights, thereby enhancing the teaching-learning process in the field of Data Analytics.



## Congratulating Our Proud Researchers – Celebrating Three Impactful IEEE Publications.

Proud moments defined the spirit of the institution as research translated into meaningful solutions for society. We were delighted to congratulate our faculty members and students on achieving three successful IEEE publications in 2025, each addressing critical real-world challenges through the application of Artificial Intelligence.



The first paper, “News Authenticity Detection Using Machine Learning: Comparative Performance Analysis,” authored by Divya K S, Sreedevi R Krishnan, Chinnu Maria Varghese, Malavika E A, Elizabeth Varghese, and Malavika J,



addressed the growing concern of fake news detection. By comparing multiple supervised learning algorithms, the study offered valuable insights into responsible AI practices aimed at preserving the credibility of digital media platforms.

Another significant contribution was the publication titled “VisionAlert: Instant Driver Assistance for Improved Road Navigation.” The research team comprising Nikhil Narayanan, Sharika T R, Parvathy Nair, Anila S, Chinnu Maria Varghese, and Divya K S proposed an affordable Advanced Driver Assistance System (ADAS) solution using a standard webcam. By employing computer vision techniques and the YOLOv8 deep learning model, the system enabled real-time traffic sign recognition with instant audio alerts, promoting safer and smarter road navigation without the need for expensive hardware.



The third IEEE publication, “BrailleVox: A Refreshable Voice Driven Braille Converter,” authored by Divya K S, Raghi R Menon, Parvathy Nair, Gouri J Sheno, Hiba Fathima M N, and Arya Nandha, presented an innovative assistive technology for visually impaired users. The system integrated voice recognition with refreshable Braille display hardware to deliver synchronized tactile feedback in real time. Usability evaluations demonstrated high voice-to-Braille accuracy with minimal latency, significantly enhancing independent access to information in educational, professional, and daily-life contexts.

These achievements reflected the dedication, innovation, and commitment of the research teams toward impactful and socially relevant research. The institution proudly acknowledged their accomplishments and looked forward to many more pioneering contributions in the years ahead.



## Faculty Members Presented Research Papers at ICSFT 2026 International Conference.

Faculty members Ms. Neetha K. Nataraj and Ms. Divya K. S, along with students Ms. Malavika J, Ms. Malavika E. A, Mr. Keerthana Santhosh, and Ms. Elizabeth Varghese, successfully presented their research paper titled “Advancements in AI-Based Techniques for Intelligent Plant Disease Detection” at the International Conference on Smart Futuristic Technology (ICSFT 2026), held from 2 to 3 January 2026. The international conference was organized in association with the IEEE Bangalore Section and brought together researchers, academicians, and industry professionals from various institutions and countries.

The research presentation showcased significant advancements in artificial intelligence-based techniques for intelligent plant disease detection. The work emphasized the application of modern AI methodologies to enable early identification and accurate classification of plant diseases, thereby contributing to improved agricultural practices and sustainable solutions.

The participation of both students and faculty members in the international conference reflected strong research collaboration and active academic engagement. Their achievement highlighted the institution’s consistent efforts to promote a vibrant research culture, encourage scholarly contributions, and facilitate involvement in reputed international academic forums.

The successful presentation at ICSFT 2026 reinforced the institution’s commitment to academic excellence, innovation-driven research, and meaningful contributions to emerging technological domains.



## CSE Faculty Achievements and Professional Milestones.

Dr. Ramani Bai V , Ms. Shany Jophin, Dr. Sreedha R. Krishnan, Dr. Deepa Devassi, Ms. Asha Alias and Ms. Rose Mary Varghese , successfully completed the AICTE Training and Learning (ATAL) Academy Faculty Development Programme on “Advancements in Cloud and Edge Computing – Research and Industry Perspectives.” The Faculty Development Programme was conducted at Adi Shankara Institute of Engineering and Technology from 5th January 2026 to 10th January 2026 under the aegis of the All India Council for Technical Education (AICTE) – ATAL Academy. All the faculty members actively participated in the programme, completed it successfully as scheduled, and were duly awarded the certifications. Their accomplishment reflects a strong commitment to continuous professional development, research enrichment, and academic excellence.



## Congratulations to CSE Faculty Members on Successful Completion of Wipro Training

The Department of Computer Science and Engineering extended its heartfelt congratulations to the faculty members Ms. Anila S (Java Full Stack), Ms. Akshaya Jayaraj (DBMS), and Ms. Sharika T R (DBMS) on successfully completing the Wipro training program conducted by TalentNext.

The training program was held from 12th January to 30th January and was completed as scheduled. All participants fulfilled the program requirements, and the certifications were duly received. This achievement reflected their commitment to professional development and continuous learning.



## Faculty Achievement: UGC Short-Term Course Completion.



Ms. Thara Reveendran, Assistant Professor, Adi Shankara Institute of Science and Technology, Kalady, successfully completed a UGC Short-Term Course on “Cyber Security and Artificial Intelligence” conducted by the Malaviya Mission Teacher Training Centre, Mizoram University under the aegis of the University Grants Commission (UGC). The programme was held from 16th to 22nd January 2026, during which she actively participated and successfully obtained Grade A. Her achievement reflects a strong commitment to upgrading domain knowledge, embracing emerging technologies, and pursuing continuous professional development in teaching and research.

## Student Participation in ICSET 2025–26 Industry – Academia Conclave.

Students Nandana Silju, Pavithra S, Shivansh Nair Sharma, Sreerag K B, and Vyshnav Jayakumar from S6 CSE C attended the 9th Edition of ICSET (2025–26), Asia’s largest industry–academia conclave, held on 13 January 2026 at the Adlux Convention Centre, Angamaly, Ernakulam.

With the theme “Reimagining Skills for a Resilient and Sustainable Future,” ICSET 2025–26 brought together academicians and industry professionals through expert talks, technical discussions, and knowledge-sharing sessions focused on future-ready skills.

The students participated in an industry-led session by Google Developers titled “Build with Gemini 3 using AI Studio & Antigravity,” which included the “Anti-Gravity” talk by Mr. Ashutosh S. Bhakare, CEO, Unnati Development and Training Centre Pvt. Ltd. The session provided valuable exposure to advanced AI tools and innovative development practices.

They also attended a fireside chat by Mr. Jayapradeep Jiothis, Chief Product Officer, AiEnsured, on “The New Rules of Success for the 2030 Workforce,” and a partner talk on MongoDB by Mr. Reghu Jeganathan, Manager, MongoDB. These sessions offered insights into modern database technologies, evolving industry expectations, and future workforce requirements.

The participation enriched the students’ understanding of emerging technologies and strengthened their industry exposure, aligning academic learning with real-world applications.



## Industrial Visit of S4 CSE C at Thodupuzha

Students of S4 Computer Science and Engineering, Adi Shankara Institute of Engineering and Technology, successfully completed an industrial visit to VCode Infotech, Thodupuzha, Kerala, on 23 January 2026 at 9:00 AM. The visit was organized with the participation of 58 students and 2 faculty members, with the objective of providing practical exposure to professional software engineering practices and industry-oriented work environments.

The programme began with a welcome session conducted by the company's technical team, who provided an overview of the organization's mission, services, and areas of technical expertise. Students were introduced to the company's work culture, project execution strategies, and quality standards followed in software development. The session offered meaningful insights into the functioning of a professional IT organization.

During the visit, students were guided through various departments, including development and quality assurance units. They observed real-time software development processes and gained exposure to Full-Stack Development, Cloud Computing, and Quality Assurance practices. A key highlight of the visit was the explanation of the Software Development Life Cycle (SDLC), along with insights into the use of agile methodologies and DevOps tools for efficient project management and delivery.

The industrial visit effectively bridged the gap between theoretical classroom learning and practical industry applications. Students interacted with software engineers and industry professionals, gaining clarity on technical workflows, collaborative team environments, and potential career pathways in the IT sector.

Overall, the visit to VCode Infotech, Thodupuzha, served as an enriching and transformative experience. It enhanced students' understanding of industry standards and professional practices, strengthened their technical perspective, and motivated them toward continuous learning and career readiness.



## Student Achievement at TSF Annual Speaking Contest.



Ms. Jincy Varghese, student of S8 CSE B, brought laurels to Adi Shankara Institute of Engineering & Technology (ASIET) by securing Second Place at the 5th TSF Annual Speaking Contest 2026. The inter-engineering speaking competition was held at Government Engineering College (GEC), Kannur and witnessed participation from students across various engineering institutions. The event showcased innovative ideas and perspectives centered on sustainability and contemporary issues. Ms. Jincy's confident articulation, clarity of thought, and effective presentation distinguished her performance and earned her well-deserved recognition.



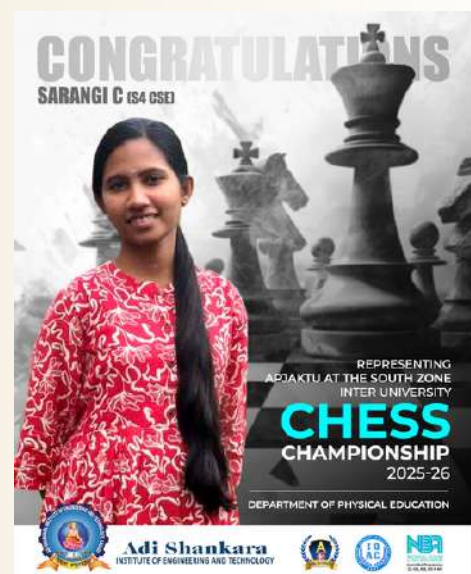
The institution congratulated her on this commendable achievement, which reflected the strong communication skills, critical thinking ability, and academic excellence nurtured at ASIET.

## Outstanding Achievement in University Chess Selection.

Congratulations were extended to Sarangi for securing the Second Position in the individual category and for being selected to represent APJ Abdul Kalam Technological University (APJAKTU) in the Inter-University Chess Tournaments. This achievement stood as a testament to her talent, dedication, and consistent hard work.

A special mention was given to Adwaita P S for her commendable performance in the selection rounds and for securing the Second Reserve position in the University Chess Team list. Her dedication and competitive spirit were truly inspiring.

Best wishes were conveyed to Sarangi for the upcoming tournament, with confidence that she would represent the university with excellence and pride.



## IEEE Kerala Section Honors IEEE SB ASIET with Prestigious Awards.



The IEEE Kerala Section conferred the IEEE Outstanding Student Branch Award 2025 on the IEEE Student Branch, Adi Shankara Institute of Engineering & Technology (ASIET), and the IEEE Outstanding Student Branch Counselor Award 2025 on Dr. Neema, marking a proud milestone for the institution. These prestigious recognitions stood as a testament to the collective efforts, dedication, and sustained excellence of the IEEE SB ASIET community.

Dr. Neema expressed sincere gratitude to the Management for their constant support and encouragement, and to the Principal for continued guidance and motivation. Appreciation was also extended to the faculty members and staff for their cooperation and active support of IEEE initiatives. Special acknowledgment was given to the IEEE volunteers and student members of IEEE SB ASIET, whose commitment, teamwork, and enthusiasm played a vital role in achieving this remarkable honor.

The awards reflected the strong culture of leadership, collaboration, and professional engagement fostered at ASIET, reinforcing its position as an active and impactful IEEE Student Branch within the IEEE Kerala Section.

## Cybersecurity Awareness Session by ASIET ACM Student Chapter.

The ASIET ACM Student Chapter conducted a cybersecurity awareness session for 7th grade students at Government UP School, Kalady Manikyamangalam. The initiative aimed to introduce young students to the fundamentals of hacking and cybersecurity while promoting safe and responsible use of digital technologies.

The session focused on essential topics such as safe internet practices, the importance of creating strong passwords, and identifying phishing attempts and fake messages. Emphasis was placed on ethical and responsible behavior in the digital space, helping students develop early awareness of online safety. The program was hosted by Thobiyas M Babu, Midhun Seemkumar, Nandhana S Nair, and Nobin Civi. This outreach initiative, organized under the Department of Computer Science and Engineering, reflected the institution's commitment to community engagement and nurturing a cyber-aware younger generation through education and service.



## ACM ASIET Logo Launch Ceremony.

The ACM Student Chapter of Adi Shankara Institute of Engineering and Technology (ASIET) successfully organized the ACM ASIET Logo Launch Ceremony on 9th January 2026 at the Seminar Hall, ASIET. The event marked a significant milestone in the journey of the student chapter, symbolizing a renewed identity and a progressive vision for the future.

The ceremony began with the gathering of faculty members, ACM office bearers, and students, creating an atmosphere of excitement and anticipation. The programme formally commenced with a warm welcome to the dignitaries and attendees, setting the stage for the much-awaited unveiling of the new logo.

The logo was officially unveiled by the Chief Guest, Mr. Varun P. Nair, Founder and Managing Partner of Ayam Group of Companies and Business Coach and Strategic Growth Mentor. The unveiling represented a fresh and dynamic identity for ACM ASIET, reflecting innovation, technical excellence, unity among students, and a forward-looking vision. The grand reveal was met with enthusiastic applause, highlighting the pride and collective spirit of the ACM community.

The Faculty Coordinator addressed the gathering and emphasized the significance of professional bodies like ACM in fostering technical knowledge, leadership qualities, and collaborative learning among students. The speech encouraged members to actively engage in ACM initiatives and contribute meaningfully to its activities.

The ACM ASIET Logo Launch Ceremony concluded successfully, marking the beginning of a new chapter for the student chapter. The event reinforced the commitment of ACM ASIET to innovation, academic excellence, and continuous growth in the field of computing and technology.



## PixelTalk: Industry Interaction on Visual Effects as Part of DEXTRA'26



As part of DEXTRA'26, the CSE Association Day of Adi Shankara Institute of Engineering & Technology (ASIET), the ASIET Design and Animation Club, in association with the CSE Department, successfully organized PixelTalk, an industry-focused technical talk centered on Visual Effects (VFX).

The session featured Mr. Sarath SK, Founder of Redshift FX, and Mr. Ajay Mathew, VFX Supervisor at Redshift FX, who are part of the VFX team behind the movie Lokah. The talk provided students with valuable insights into the VFX production pipeline, industry workflows, creative processes, and emerging opportunities in animation and visual effects.

The speakers shared their professional experiences, discussed real-world project challenges, and highlighted the skills required to build a successful career in the VFX and animation industry. The interactive nature of the session encouraged active participation, allowing students to engage in discussions and gain practical knowledge beyond the classroom.

The event witnessed enthusiastic participation from students and faculty members and significantly contributed to bridging the gap between academic learning and creative industry practices. PixelTalk added a unique and inspiring dimension to DEXTRA'26 by exposing students to interdisciplinary career pathways in technology and digital arts.

## μLearn ASIET – Karma Leaderboard Highlights.



The Karma Leaderboard dated 17-01-2026 recognized the consistent efforts and active participation of members within the μLearn ASI community at Adi Shankara Institute of Engineering and Technology. The rankings reflected dedication, steady progress, and a healthy competitive spirit among the participants.

Afiya Fathima secured the first position on the leaderboard with an impressive score of 14,104 Karma points, demonstrating exceptional commitment and sustained engagement throughout the week.

The top ten list also included Sanjay S, Snehamol K M, Mathew Joseph T A, Nesrin K Muhammed, Parvathy Unnikrishnan, Rosemol Joshy, Muhammed Afreen, Amal Anish, and Haritha K J. Their consistent participation and contributions played a significant role in shaping the weekly standings. The leaderboard continued to serve as a motivating platform, encouraging members to actively engage, enhance their skills, and strive for higher achievements in the weeks ahead.

## Karma Leaderboard Weekly Highlights.



The Karma Leaderboard dated 30-01-2026 recognized the continued dedication and active engagement of members within the  $\mu$ Learn ASI community at Adi Shankara Institute of Engineering and Technology. The weekly rankings reflected consistent effort, steady improvement, and a strong competitive spirit among participants. Afiya Fathima secured the first position on the leaderboard with an impressive score of 14,144 Karma points, maintaining a leading position through sustained contribution and active participation. The top ten list also included Sanjay S, Snehamol K M, Mathew Joseph T A, Nesrin K Muhammed, Meenu K S, Parvathy Unnikrishnan, Muhammed Afreen, Rosemol Joshy, and Lakshmipriya K S. Their consistent involvement and performance played a significant role in shaping the week's standings. The leaderboard continued to serve as a motivating platform that encouraged members to remain engaged, enhance their skills, and strive for higher achievements in the coming weeks.

---

# Engineering Sustainable Prosperity: Technology and Innovation to Bridge the Gap

---

## ***Introduction***

The 21st century presents a paradox: while technological progress accelerates, global inequalities persist. Advanced economies invest in artificial intelligence, renewable energy, and digital infrastructure, yet millions remain without access to basic needs. It is clear—engineering, technology, and innovation must be combined to create sustainable prosperity and bridge this gap.

## ***Defining the Core Concepts***

- **Engineering:** Designing solutions that are reliable, scalable, and repairable.
- **Sustainability:** Ensuring solutions endure without exhausting resources or harming future generations.
- **Prosperity:** A holistic measure of wellbeing—health, education, dignity, and economic security.
- **Technology:** The toolbox of tools, systems, and applications enabling problem-solving.
- **Innovation:** Combining tools, knowledge, and practices to create context-appropriate solutions.
- **Bridging the Gap:** Transforming invention into accessible, community-owned benefits.

## ***The Global Gap***

Recent reports highlight the scale of disparity:

- 940 million people (13% of the world) remain without electricity.
- 663 million people lack access to safe drinking water.
- Climate change has already reduced U.S. income by 12%.
- A 1°C rise in temperature increases poverty by up to 1.18 percentage points and raises inequality (Gini index) by 1.3–1.9%.

The OECD emphasizes that science and innovation are critical to achieving sustainable growth and equitable futures. The UN's Tracking SDG7 report warns that current progress is insufficient to achieve universal energy access by 2030.

## ***Pillars of Action***

### ***1. Deploy Scalable Technologies***

- Smart grids, AI-driven agriculture, carbon capture, and green computing reduce waste and increase efficiency.
- Renewable energy micro grids provide decentralized power to underserved communities.

## 2. Foster Inclusive Policies

- Embedding ESG (Environmental, Social, Governance) standards in corporate strategies.
- Promoting green financing and circular economy frameworks to align investment with sustainability goals.

## 3. Amplify Grassroots Innovation

Supporting youth start-ups, hackathons, and community pilots.  
Encouraging locally adapted solutions such as crop health prediction apps, plastic waste tracking, and rainwater harvesting systems.

### **Critical Questions**

Is technology truly sustainable if it cannot be maintained locally?

Should innovation be measured by patents filed or by hours of human life improved?

Who owns the future if communities cannot repair the machines they depend on?

What inventions would we prioritize if every device had to prove it gave families two extra hours a week?

### **Conclusion**

Engineering sustainable prosperity requires more than breakthrough inventions—it demands scalable technologies, inclusive policies, and grassroots innovation. The bridge between scarcity and abundance will only hold if communities can own, maintain, and benefit from the solutions provided.

Final thought: Progress should be measured not by the sophistication of our tools, but by the dignity and opportunity they return to everyday lives.

-Jincy Varghese  
2022-26 Batch  
CSE B



## My Journey with ASIET

When I entered ASIET, I believed I had time. Four long years to explore, participate, grow, and “figure things out.” What I didn’t understand then was how quickly those four years would pass and how easily opportunities slip away when we keep telling ourselves there’s always tomorrow. One conscious choice defined my college journey: I chose not to stay away.

I made it a point to involve myself in everything ASIET had to offer academic initiatives, technical and non-technical clubs like IEEE and IEDC, events, workshops, cultural programs, and campus activities. Not because I was always confident or prepared, but because I didn’t want fear or hesitation to decide my experience for me.

Each opportunity taught me something different. Some taught skills, some discipline, some leadership, and many taught humility. More importantly, they introduced me to friends, seniors, juniors, and mentors who made college feel like more than just classrooms and exams. The long Friday breaks that brought the class together, the last-minute preparation outside exam halls, and the planning phases behind every major event became memories I carry with me.

College education extends far beyond the syllabus. It lies in conversations after events, teamwork with peers, learning to speak up, and learning to listen. It lies in discovering interests you didn’t know you had and strengths you didn’t know you possessed often fueled only by your own motivation simply because you chose to participate.

A common misconception many students fall into is believing that four years is a long time. While running to the GM office with the final schedule draft of Brahma ’25, I had a full-circle moment seeing freshers excited about the upcoming events. It felt like just yesterday when we believed we had four more years to host Brahma. In the blink of an eye, we were the ones running around with files, racing against time.

As an alumna of ASIET, I look back with gratitude not because everything was perfect, but because I chose to experience college fully. Every opportunity I accepted added depth to my journey and clarity to the path ahead.

To the students of today: don’t wait. Don’t observe from the sidelines. Don’t underestimate the value of showing up. Every opportunity you see is a memory in the making. You may think you have four years but what you truly have is now. Make it count.

- Nanditha Rajesh Nambiar  
Class of CS 21-25



---

## Artificial Intelligence in Transition: From Software Tools to Autonomous Transformer Systems

Artificial intelligence (AI) has changed over the past ten years from an experimental technology to a fundamental part of contemporary digital infrastructure. This change has been fuelled by advancements in software tools, learning strategies, and model architectures. Among these, transformer-based systems have been instrumental in reshaping how AI is developed, deployed, and integrated across institutional and enterprise environments. Originally created to support natural language processing tasks, transformer models have advanced beyond their initial role as conversational agents, becoming autonomous computational layers embedded within organizational workflows and societal systems. These models are increasingly able to plan, carry out, and verify multi-step tasks with little human intervention.

By early 2026, they have become autonomous computational layers embedded within organizational workflows and societal systems. These models are increasingly capable of planning, executing, and verifying multi-step tasks with minimal human intervention, effectively functioning as digital workers in software-driven environments. This shift toward autonomy has been enabled by improvements in context management and architectural efficiency. Hybrid architectures that combine transformers with approaches such as Mixture-of-Experts and State Space Models further enhance scalability while reducing computational overhead.

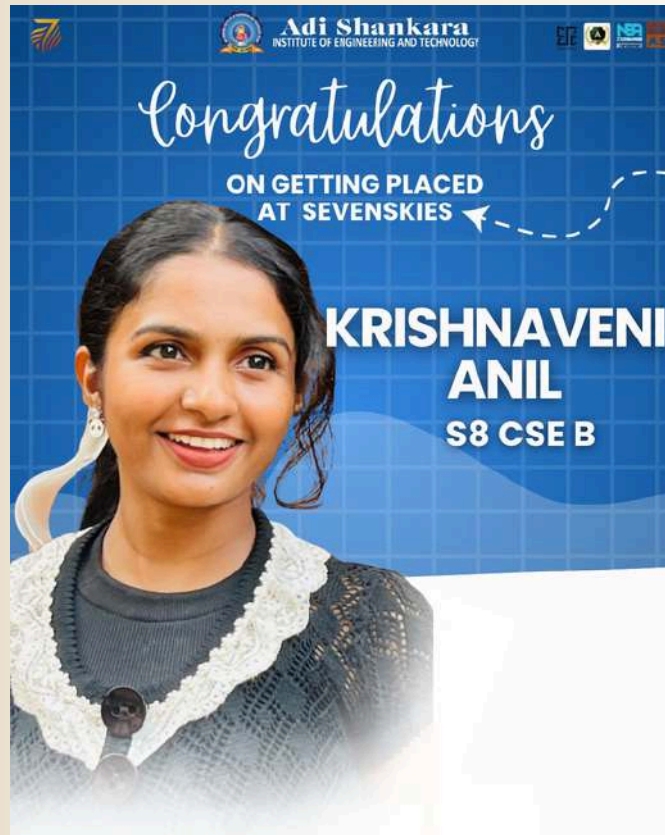
Domain-specific transformer models have delivered measurable improvements in productivity, accuracy, and decision-making quality. Applications such as intelligent code generation, medical decision support, fraud detection, and autonomous system coordination illustrate the practical value of these technologies. At the same time, the growing autonomy and influence of AI systems have heightened the importance of governance and responsible deployment.

In conclusion, the evolution of transformer-based AI systems represents not only a technological advancement but also an institutional shift in the role of Artificial Intelligence. As transformers increasingly function as operating layers within complex systems, sustained academic engagement and interdisciplinary collaboration will be critical to addressing challenges related to trust, accountability, and societal impact.

Thara Reveendran  
Assistant Professor  
Department of CSE



## ASIET Student Secured Placement at Sevenskies



Krishnaveni Anil, a final-year student of S8 Computer Science and Engineering (Batch B) at Adi Shankara Institute of Engineering and Technology (ASIET), successfully secured a placement at Sevenskies. The achievement reflected her consistent academic performance, technical competence, and dedication throughout the course of her study.

The placement marked a significant milestone in her professional journey and stood as a testament to the institute's continuous efforts in preparing students for industry readiness through quality education and skill development initiatives. The accomplishment added to ASIET's growing list of successful student placements and highlighted the effectiveness of its training and placement support system.

## CSE Students Successfully Secured Placements at SAM Corporate.



The Department of Computer Science and Engineering proudly announced that six of its S8 students successfully secured placements at SAM Corporate. The students, Elswin P Eldho (S8 CSB), Alen Davis (S8 CSA), Adithya A V (S8 CSA), Premkrishna V P (S8 CSC), Vishnu Prasad (S8 CSC), Charukesh Prasanth (S8 CSB), and Christo Martin (S8 CSB), demonstrated exceptional skills and dedication throughout the recruitment process. This achievement reflects the department's commitment to nurturing talent and preparing students for professional success.

## CSE Student Secured Placement at NORDEN.

The Department of Computer Science and Engineering announced with pride that Anu Babu, S8 CSE A, successfully secured placement as a Documentation Data Analyst at NORDEN. This achievement reflected her consistent efforts, technical competence, and dedication throughout her academic journey. The department extended its congratulations and wished her continued success in her professional career.



## FOLLOW US ON OUR SOCIALS:

### CONTACT US:

newslettercse@adishankara.ac.in



---

## EDITORIAL BOARD

### CHIEF EDITOR



DR. RAMANI BAI V (Professor & Head - CSE)

---

### EDITORS



MS. SHANY JOPHIN



MS. NAZNIN M ALI

---

### CREATIVE DESIGN



NANDANA SUDHIR VARMA  
(S4 CSE-C)



CATHERINE NIXON  
(S6 CSE-B)

---

### CONTENT TEAM



GLORIYA TITTO  
(S8 CSE-B)



SANA FATHIMA  
(S6 CSE-C)



SANJANA ELIZABETH  
(S6 CSE-C)