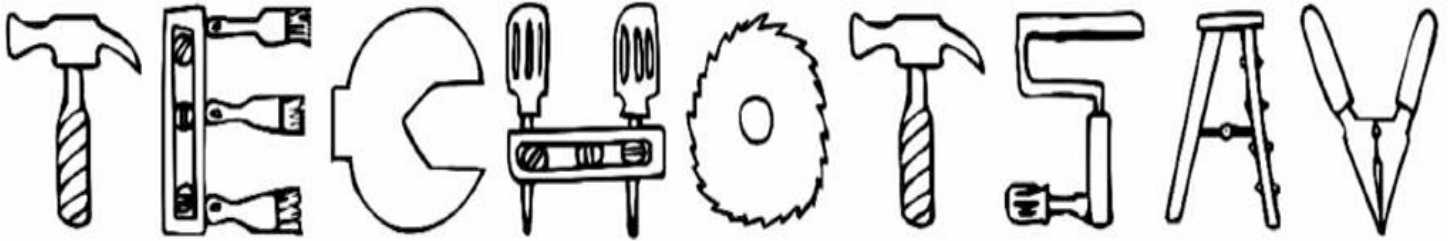




Department of Artificial Intelligence & Data Science



The Newsletter
June 2025 Edition



The Newsletter
Jan 2025 - Jun 2025

"Educate and raise the masses, and thus alone a nation is possible" -Swami Vivekananda



VISION

To be a place of academic excellence by imparting quality teaching in the field of **Artificial Intelligence**.



MISSION

To render quality teaching and provide the required resources needed to acquire cutting edge professional skills.

To encourage innovation through academic and industry exposure.

To foster ethical behaviour, team work skills and soft skills required for a successful professional life.

NEWSLETTER COMMITTEE

Student team

Jhalak Dedhia
Molisha Jain

Kinjal Panchal
Insiyah Bhatia

Heer Panchal
Het Rambhia



Message from Head of Department

ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Dear Techotsav Community,

We are delighted to bring you the latest edition of the "TECHOTSAV" Newsletter of Department of AI-DS for the period July - Dec 2024, your go - to source for all things technology and innovation. As the world continues to evolve at an unprecedented pace, it is essential to stay informed and up-to-date with the latest advancements in the tech industry.

It gives me immense pleasure to share the achievements and progress of the Department of AI-DS since its inception. I express my sincere gratitude to our Principal, Dr. Vivek Sunnapwar for his constant encouragement, support, and motivation to our faculty, staff, and students. We began our journey in 2020-21 with an intake of 60 students, which has grown to 120 in 2023-24, reflecting the increasing trust and interest in the AI-DS domain.

Our department has a vibrant team of committed faculty members and enthusiastic students who stand out across the institute. I am delighted to share that I have registered for a Post-Doctoral Research Program at Lincoln University College, Kuala Lumpur, Malaysia. Dr. Sheetal Jagtap recently completed her Ph.D., and four of our faculty members are currently pursuing their doctoral research from reputed universities. The department proudly received a grant from AICTE-ATAL Academy to organize a Faculty Development Program for 2025-26. Faculty and students have contributed significantly through quality peer-reviewed publications and innovative projects. I congratulate the Techotsav newsletter committee for their dedicated efforts in presenting our department's vibrant activities and achievements. Let us continue our journey with passion, purpose, and innovation.

Best regards,

Dr. Milind Nemade,
Head and Professor AI-DS
KJSIT Sion, Mumbai.



Dr. Milind Nemade
Head of Department
(AI-DS)



Newsletter Incharge Message

ARTIFICIAL INTELLIGENCE & DATA SCIENCE

Dear Students,

The field of Artificial Intelligence and Data Science continues to evolve at an incredible pace. This month, global tech leaders introduced advanced real-time video-generating and multimodal AI systems, marking a significant step toward human-like machine reasoning. Nationally, the Government of India's new AI mission focuses on applying AI solutions in agriculture, healthcare, and education—opening exciting pathways for young engineers to make meaningful contributions.

As students of AI & DS Engineering, I encourage you to stay curious, build hands-on experience, and take part in research, hackathons, and industry projects. These experiences will help you grow both as learners and innovators in this transformative era.

The newsletter serves to keep AI & Data Science Engineering students well-informed and actively engaged with the latest trends, innovations, and developments in the field. It serves as a platform to share recent technological advancements, departmental updates, research highlights, student achievements, and upcoming opportunities such as internships, workshops, and competitions. By connecting academic learning with real-world innovation, the newsletter strives to inspire curiosity, encourage active participation, and build a vibrant community of future-ready AI & DS professionals.

A heartfelt thank you to our dedicated editorial and content team for their continued effort in curating this newsletter. Your creativity, coordination, and commitment help keep our student community informed and inspired.

Warm regards,
Dr. Sheetal Jagtap
Newsletter Incharge
Department of AI & DS Engineering, KJSIT, Mumbai.



Prof. Sheetal Jagtap
Newsletter Incharge
(AI-DS)



INITIATIVES

KnowCode 2.0: Innovating for a Sustainable Future

The KJSIT Students' Chapter of the Society for Data Science (S4DS) proudly organized KnowCode 2.0, a 36-hour hackathon held from 24th to 26th January, 2025, at K. J. Somaiya Institute of Technology, Sion, Mumbai. The event witnessed the arrival of 40 selected participants who queued for registration, having been shortlisted from 166 applicants based on the quality and originality of their project abstracts. Centered on the theme of Sustainable Development Goals, the hackathon aimed to bring together bright young minds to develop cutting-edge solutions that optimize resources, improve efficiency, and contribute to a greener future.



Fig: KNOWCODE 2.0

The event provided a fully sponsored experience, with free registration, accommodation, and meals for all participants. Teams of two to four members competed for a prize pool worth ₹75,000, along with exciting perks. Participants worked across multiple emerging domains including Internet of Things (IoT), Cloud Native, Artificial Intelligence and Machine Learning (AI/ML), Web 3.0 and Blockchain, Augmented and Virtual Reality (AR/VR), Data Science and Analytics, App and Web Development, and Cyber Security. The hackathon commenced on 24th January at 8:00 AM and concluded with a closing ceremony on 26th January at 8:00 PM. The event was coordinated seamlessly by Dr. Sheetal Jagtap and Prof. Sejal Shah, whose efforts contributed to the successful execution of this impactful and inspiring event.



Fig: Felicitation Ceremony

Career Insights in AI & Data Science

The session titled "Career Insights in AI & Data Science" was conducted on 17th February 2025 (11:00 am) by Mr. Jay Shah (Alumnus 2016) for third-year AI & Data Science students. The session was attended by 44 + students, providing an interactive and informative discussion on various career opportunities and trends in the industry. Mr. Shah provided valuable insights into evolving career opportunities in AI, Cyber Security, Data Analytics, and DevOps. He emphasized the importance of technical expertise, domain knowledge, hands-on project experience, and continuous learning.



Fig: Felicitation of the Guest



Fig: Career Talk by Mr. Jay Shah

Gen-AI Saksham: Empowering Students through Industry- Integrated AI Training

The Department of Artificial Intelligence & Data Science, in collaboration with the Industry & Industry Interaction Cell, proudly organized Gen-AI Saksham under the TechFusionX initiative at K. J. Somaiya Institute of Technology. Held on April 12-13, 2025, the event was conducted in association with Capabl., an educational division of Elite Techno Groups. Gen-AI Saksham provided an intensive and engaging platform for students to explore the transformative potential of Generative AI technologies.



Fig: Gen-AI Saksham Program

Webinar Report – The Future of Generative AI

The Society for Data Science (S4DS) at K. J. Somaiya Institute of Technology conducted a webinar titled "The Future of Generative AI" on 15th and 29th March 2025. Led by Mr. Suhas Shirbhavikar, Manager at Atos Global IT Solutions and Services, the 6-hour online workshop provided both theoretical insights and hands-on experience with tools like LangChain, Neo4j, Groq, and OpenAI. The event saw nearly 100 active participants per session, with strong engagement and positive feedback. It was organized by Dr. Sheetal Jagtap and coordinated by Namitha Prakash via Google Meet. The webinar successfully empowered students to begin building their own AI-driven applications.

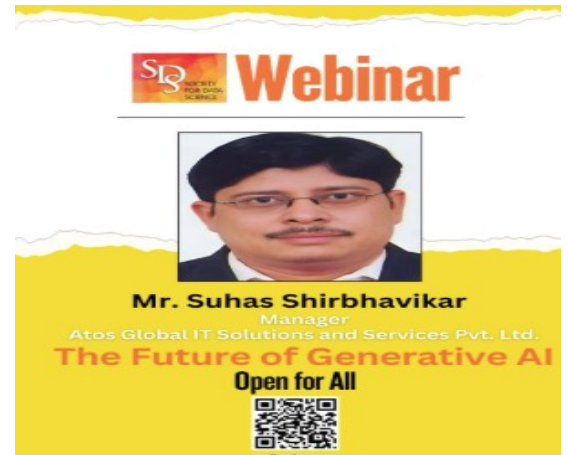


Fig: Online Webinar Poster

Poster Presentation Competition

The Department of Artificial Intelligence and Data Science at K.J. Somaiya Institute of Technology hosted a Poster Presentation Competition on 8th April 2025. Students showcased their innovative ideas and research in AI and data science through posters, with active participation and support from faculty, fostering a creative learning environment. The event encouraged students to think critically and present complex concepts in a visually engaging manner. Judges evaluated the posters based on originality, technical depth, and presentation skills, recognizing the best entries with awards and certificates.



Fig: Poster Presentation Competition

Webinar on Electric Vehicle Technology Organized in Collaboration with CAPABL, Bangalore

An online webinar on "Electric Vehicle" was organized by Dr. Vaishali Wadhe in collaboration with CAPABL, Bangalore on 1st February 2025, from 10:00 AM to 11:30 AM. The objective of the webinar was to provide both students and faculty members with a comprehensive understanding of Electric Vehicle (EV) technology, emphasizing its fundamental concepts, hybrid structures, and battery design. The session served as an insightful platform to enhance knowledge and awareness of emerging EV innovations and sustainable transportation technologies.

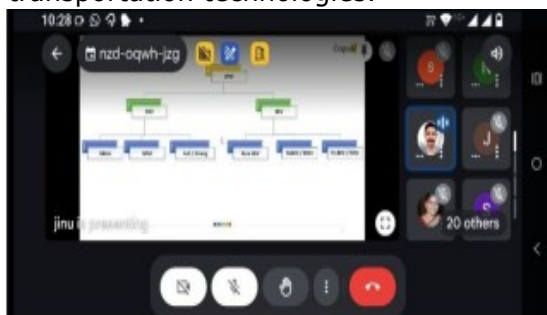


Fig: Online webinar on Electric Vehicle
Two-Day Robotics Training Program

A Two-Day Robotic Training Program on Wired Robotics, QuadCopter, and Artificial Intelligence was organized by Dr. Vaishali Wadhe from 8th to 9th January 2025. The training was conducted for students of Somaiya Vidya Mandir, Lakshmiwadi and Shri Sharda English Medium School, Kopargaon. The program aimed to introduce students to emerging technologies in robotics and AI, fostering interest and foundational skills through interactive sessions and hands-on activities.



Fig: Robotics training program

Madhuban-Ratapani Forest Internship

The Madhuban-Ratapani Forest Internship was jointly organized by Dr. Vaishali Wadhe in collaboration with the Somaiya Center for Experiential Learning, Somaiya Vidyavihar University. The internship was conducted from 24th to 26th January 2025, offering participants a unique opportunity to engage in experiential learning within a natural forest environment. The program focused on environmental awareness, biodiversity, and hands-on ecological education.



Fig: Students at Madhuban-Ratapani Forest

Hands-On Web Scraping Workshop Conducted by Industry Experts

A Web Scraping Workshop was conducted on 18th March 2025, organized by Prof. Sarika Mane. The session was led by Sravan Kota, Rishikesh Giridhar, and Aditya Mer, who guided participants through the complete web scraping process. The workshop covered essential skills such as identifying website structures using developer tools and writing effective scripts to collect and process data efficiently. The event provided practical insights into data extraction techniques widely used in real-world applications.



Fig: Students of AIDS during workshop

Recognition of Faculty and Students at the 9th ICDMAI, 2024

At the 9th International Conference on Data Management, Analytics, and Innovation (ICDMAI 2024), the Society for Data Science (S4DS) felicitated KJSIT members for their contributions to the S4DS Students Chapter.

Honorees:

Dr. Milind Nemade – S4DS Professional Member Volunteer 2024

Prof. Sejal Shah – S4DS Chapter Coordinator 2024

Ms. Bhavormi Somaiya – S4DS Student Member Volunteer 2024

Ms. Namitha Prakash – S4DS Webinar Volunteer 2024

This remarkable recognition reflects their dedication, hard work, and passion, inspiring everyone to aim higher and pursue excellence. Some of the glimpses are as follows,



Fig: Felicitation of Dr. Milind Nemade at ICDMAI



Fig: Felicitation of Prof. Sejal Shah at ICDMAI



Fig: Felicitation of Ms. Namitha Prakash at ICDMAI

Team New Leap Labs Shines at IN-SPACE ISRO Immersion Program

We congratulate our talented students from the AI-DS department—Shreya Patil (Second Year), Aryan Ilake (Third Year), and Vivek V. Dhanawade (Final Year)—for their exceptional participation in the prestigious Immersion Program conducted by IN-SPACE, ISRO, from 24th-28th February 2025. This immersive experience offered them a unique opportunity to delve into the world of space technology and satellite systems. Through hands-on sessions with simulation tools and testing facilities, the students gained valuable insights into space applications, showcasing their enthusiasm and the department's focus on innovation and emerging technologies.



Fig: Aryan Ilake(top left), Vivek Dhanavde(top right), Shreya Patil(bottom middle) receives a certificate

TY-AIDS Faculty and Students Dazzle at Surge 2025

At Surge 2025 on 6th March 2025, the talented faculty and students of TY-AIDS lit up the stage with an energetic and captivating dance performance. Their coordination and enthusiasm made it a highlight of the event.



Fig: Faculty and Students of AI-DS department

ACHIEVEMENTS

Award of Appreciation for Team Mansik Shakti at Constitution Club, New Delhi

On March 18th, 2025, Team Mansik Shakti had the opportunity to attend a prestigious national event at the Constitution Club of India, New Delhi, organized by the esteemed Dr. Amresh Shrivastava, a global advocate for mental health. The event brought together prominent figures and youth delegates from across the country. Amidst this inspiring gathering, our team's innovative contributions to mental health awareness were recognized with a special award of appreciation. Representing the team were Netra Shukla (AIDS Alumnus), Tanushree Hajare (Final Year AIDS), Janak Limbachia (AIDS Alumnus), and Harsh Mange (AIDS Alumnus). Their recognition highlights the importance of youth-driven initiatives in shaping conversations and solutions around mental health at a national level.



Fig: Team Mansik Shakti at Constitutional Club of India



Fig: Dignitaries of Constitutional Club of India



Fig: Dr. Sheetal Jagtap being felicitated for mentoring the Mansik Shakti project

A Moment of Honor: Dr. Milind Nemade Recognized as IEEE Senior Member

Dr. Milind Uttam Nemade, Head of the Department of Artificial Intelligence & Data Science (AIDS), has been elevated to the prestigious rank of Senior Member of IEEE. This significant recognition reflects his professional excellence and contributions to the field. Notably, only 10% of IEEE's nearly half a million members achieve this esteemed distinction, making it a remarkable milestone in his academic and professional journey.



Kathleen A. Krumer
2025 IEEE President-Elect
Phone: +1 772 962 2020
Fax: +1 772 962 2015
pres@ieee.org

04/21/25

Dear DR. MILIND UTTAM NEMADE:

It is a pleasure to advise you that DR. MILIND UTTAM NEMADE, a member of your organization, has been elevated to the grade of Senior Member of IEEE this year.

Senior Member is the highest professional grade of IEEE for which a member may apply. It requires extensive experience and reflects professional accomplishment and maturity. Only 10% of our nearly half a million members have achieved this level.

We are very pleased to have DR. MILIND UTTAM NEMADE join the elite rank of IEEE Senior Members.

Both DR. MILIND UTTAM NEMADE and you should be proud of the professional achievements that led to this recognition. We look forward to additional contributions and successful projects and discoveries made by or associated with our new Senior Member.

Sincerely,

Kathleen A. Krumer

Kathleen A. Krumer
2025 IEEE President-Elect

Questions or Comments: Email the Senior Member Team at senior@ieee.org

Fig: Dr. Milind Nemade honored with IEEE Senior Member Grade

AI-DS Students Excel in GATE 2025

Students from the Artificial Intelligence and Data Science (AI-DS) department have achieved commendable results in the GATE 2025 examination, competing among over 1.8 lakh candidates in Computer Science (CS) & Data Science & Artificial Intelligence (DA). Tanushree Hajare scored 534 in CS with an AIR of 4257. In the DA category, Sravan Kotta scored 546 (AIR 1297), Aditya Mer scored 385 (AIR 6037), and Prasad Devkar scored 417 (AIR 4521). Their hard work and academic excellence have brought pride to the department. We congratulate them on this achievement and wish them continued success.



Lorem Ipsum Clinches 2nd at ALGOFORGE

We are delighted to announce that Team Lorem Ipsum from KnowHow (S4DS) secured the 2nd position at the 24-hour offline IEEE-KJSIT Hackathon, ALGOFORGE, held from March 22 to 23, 2025. The team was awarded a cash prize of ₹15,000 for their exceptional project and performance. Their project, titled "Class Connect," is a cross-platform academic support solution designed to assist college students throughout their educational journey. The innovative team comprised Durgesh Dubey, Rahul Dhanak, Aakash Pandey, and Riddhesh Chaudhary, who showcased strong technical acumen and collaborative spirit. We congratulate them on their remarkable achievement and contribution to student-centric innovation!



Fig: Prize received by Aakash, Rahul, Durgesh and Riddhesh

3rd Place Secured by Team Unfortunately Fortunate

We are proud to share that Team Unfortunately Fortunate from KnowHow (S4DS) achieved 3rd place at the 24-hour offline IEEE-KJSIT Hackathon, ALGOFORGE, held on March 22-23, 2025. Their outstanding efforts earned them a prize of ₹10,000. Their project, titled "Intellex," is an AI-powered smart assistant tailored for enterprise project and personnel management. Leveraging Large Language Models (LLMs).

The team consisted of Adrita Banerjee, Rahul Ganatra, Keyur Mistry, and Shreyash Gupta, who demonstrated exceptional problem-solving and teamwork skills throughout the competition. Congratulations to the team for their innovation and success!



Fig: Prize received by Rahul, Shreyash, Adrita and Keyur

ISF 2025: AI-DS Secures Runner-Up Spot

Final Year AI-DS secured second place at VISIONBOARD, a part of the ISF Congress held at Shah & Anchor Kutchhi Engineering College on March 28, 2025. The team was awarded a cash prize of ₹3000 for their innovative contribution. Their project, titled FastWrite: Automation of Code Documentation. The project was guided by Prof. Sejal Shah, and the winning team members included Sravan Kotta, Rishi Giridhar, Aditya Mer, and Oam Bhanushali. Their dedication and innovative thinking have brought pride to the department.



Fig: Certificate received by Sravan Kota and Rishi Giridhar

KnowHow's AI Duo Wins 1st Place at National Hackathon

We are proud to share that Team KnowWiz from KnowHow (S4DS) achieved 1st position at the Neural Nexus 24-hour offline AI/ML Hackathon, held on December 2, 2024, and organized by Vijaybhoomi University in collaboration with NEC and IIT Bombay. Competing against talented teams from across the country, the team secured a cash prize of ₹12,000. The winning project, titled "MLOps Pipeline for Paletos Bay Restaurant Network," focused on AI-driven sales analysis and predictive modeling for the HoReCa (Hotel, Restaurant, and Catering) industry. Team Members Pranav Narkhede and Aniruddh Sengupta demonstrated exceptional skill, collaboration, and innovation throughout the competition. Their accomplishment highlights the department's growing expertise in AI and machine learning, and we extend our heartfelt congratulations to them!



Fig: 24-hour offline AI/ML Hackathon

KnowWiz Rises to the Top 3 at CodeAI Hackathon 2025

A team from Third Year AI-DS secured the 3rd position at the 24-hour offline CodeAI Hackathon, LEVEL UP, held on April 5-6, 2025. The winning project, titled "Know Media," is an AI-powered social media management platform that automates and enhances content creation, scheduling, and analytics across various platforms like Instagram, Twitter, LinkedIn, and WhatsApp. Featuring AI-assisted post generation and an Automated AI Pipeline, the platform enables businesses to efficiently plan and schedule a full year of



Fig: Team KnowWiz at CodeAI's LEVEL-UP

content, including posts, stories, reels, and captions. The team, KnowWiz, comprised Pranav Narkhede and Aniruddh Sengupta from TY AI-DS, along with Anandi Ket and Dhriti Kothari from TY COMPS. Their innovative solution and teamwork earned them a prize of ₹5,000.

1st Prize Triumph for Vision AI at Intech National Competition 2025

TY students Pranav Narkhede and Aniruddh Sengupta have secured the Winner's Position (1st Prize) at the prestigious Intech National Level Project Competition 2025, earning a cash prize of Rs. 7000.



Fig: Received prize by Anirudh sengupta, Pranav Narkhede and mentor Prof. Deepali Chavan

Current Happenings & Recent Trends in the AI - DS Domain

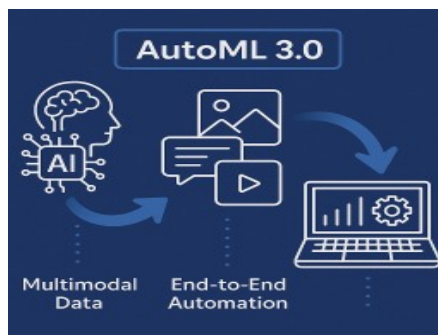
As Artificial Intelligence (AI) and Data Science (DS) continue to reshape the digital world, 2025 has emerged as a year of transformative progress. This section highlights the latest developments, innovative trends, and societal implications of AI-DS across industries and regions.



Top Trends Redefining the Field

Agentic AI & AI Agents

AI is now shifting from reactive assistants to proactive autonomous agents capable of planning, executing, and collaborating across complex tasks. These agents are expected to automate workflows, enhance productivity, and revolutionize service delivery in education, healthcare, and enterprise environments.

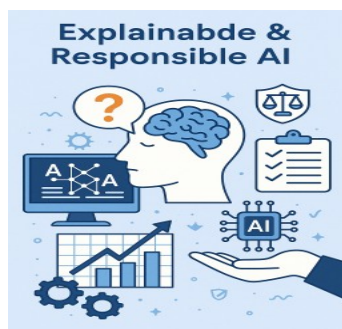


AutoML 3.0

With AutoML maturing, it now supports multimodal data handling, context awareness, and end-to-end pipeline automation. This democratizes AI development, allowing even non-technical users to create powerful models efficiently.

Synthetic & Federated Data

To ensure privacy and tackle data scarcity, synthetic data and federated learning are becoming mainstream. These technologies allow organizations to train robust models without exposing sensitive data—vital in sectors like finance and healthcare.



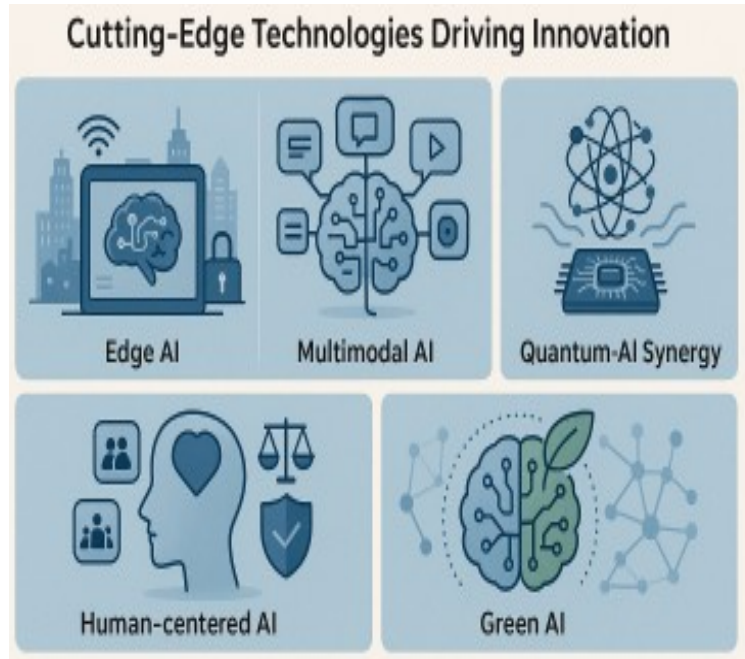
Explainable & Responsible AI

With AI influencing major decisions, transparency, ethics, and interpretability have become non-negotiable. Tools and frameworks for Explainable AI (XAI) are now central to developing trustworthy models in regulated domains.

READERS SECTION

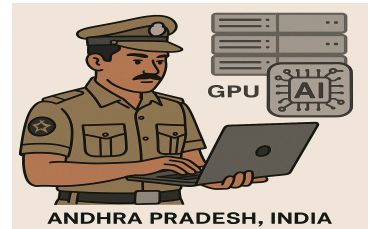
Cutting-Edge Technologies Driving Innovation

- **Edge AI** brings offline, real-time intelligence to devices—vital for IoT and smart cities.
- **Multimodal AI** merges images, text, sound, and video to enhance interaction.
- **Quantum-AI** accelerates simulations and complex problem-solving.
- **Human-centered AI** prioritizes safety, inclusivity, and ethical use.
- **Green AI** promotes energy-efficient AI development.



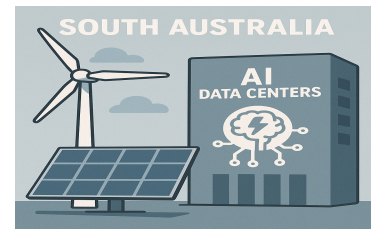
Regional Highlights & Real-World Impact

- **Andhra Pradesh, India** is deploying GPU clusters and language-specific LLMs to build AI-led law enforcement tools.



- **Tamil Nadu's Vidhai Project** is creating open datasets to train AI models in Tamil and

- **South Australia** is building renewable-powered AI data centers to support national-scale computing.



- **Wall Street giants** like Goldman Sachs and JPMorgan are automating risk, IPO analysis, and client engagement using Generative AI.

- **AI-powered wildfire cameras** in Australia and storm detection systems in Taiwan are helping prevent disasters.



READER SECTION

The Rise of Multimodal AI: Beyond Text Generation

One of the most groundbreaking shifts in 2025's AI landscape is the emergence of Multimodal AI — intelligent systems that process and generate text, images, audio, and video. Unlike earlier language models limited to textual input, these models mirror human understanding by interpreting multiple forms of data simultaneously.

Leading this evolution are models like OpenAI's GPT-4o and Google's Gemini 1.5. GPT-4o has amazed the AI community with its ability to hold real-time voice conversations, respond with emotion, analyze images, and interpret audio — all within the same interaction. Similarly, Gemini 1.5 showcases long-context processing, capable of understanding and generating content from lengthy documents, visuals, or videos.

The real-world impact of these models is immense. In education, they function as interactive tutors — reading texts aloud, solving visual math problems, or explaining scientific diagrams. In healthcare, they assist in interpreting X-rays or scans while referencing medical history. In creative fields, they help generate synchronized videos, voiceovers, and subtitles — transforming content creation. For accessibility, these models provide real-time audio descriptions for images and assist users with voice-guided navigation.

Multimodal AI is reshaping how humans interact with machines, making interactions more natural, responsive, and inclusive. As this technology matures, it promises to go beyond single-modality limitations and become the backbone of smarter, more human-like AI systems. The shift toward multimodal understanding isn't just an upgrade — it's a transformation that will define the next chapter in AI-driven communication and innovation.

- Prof. Pankaj V Deshmukh
Department of Artificial Intelligence and Data Science



READERS SECTION

AI & Data Science: Shaping the Next Digital

The AI and Data Science (AI-DS) landscape in 2025 is undergoing transformative shifts that are reshaping industries and accelerating innovation. One of the most prominent developments is the integration of AI with Augmented and Virtual Reality (AR/VR). From virtual fashion try-ons to immersive training modules in healthcare and aviation, AI-powered AR/VR is enabling hyper-personalized, interactive experiences across domains.

Another major trend is the rise of Green AI, aimed at building energy-efficient and environmentally sustainable AI systems. With large-scale model training consuming massive computational resources, researchers are now employing techniques like model pruning, quantization, and energy-aware architectures to reduce AI's carbon footprint while maintaining performance.

Meanwhile, Neurosymbolic AI — a blend of deep learning and symbolic reasoning — is gaining traction. This hybrid approach empowers machines not only to recognize patterns but also to reason and infer, making it especially valuable in fields like legal AI, education tech, and robotics. The growing popularity of No-Code and AutoML platforms such as Google AutoML and Microsoft Azure ML is also democratizing AI by enabling non-programmers to build and deploy models, breaking down barriers to innovation.

In parallel, the use of domain-specific foundation models is revolutionizing research. By fine-tuning large pre-trained models like LLaMA, Mistral, and Claude for specific areas such as genomics, finance, and Indian languages, experts are achieving domain-focused excellence with greater efficiency. Lastly, the shift toward real-time analytics is empowering businesses to make immediate, data-driven decisions. Tools like Apache Kafka and Spark Streaming support live data processing for agile, responsive operations.

As these trends unfold, AI-DS continues to evolve into a dynamic, interdisciplinary ecosystem — and adapting to it is essential for tomorrow's tech leaders.

- Ashika Jain
LY AIDS

AI & DATA SCIENCE TRENDS IN 2025



AI with AR/VR



Green AI



Neurosymbolic AI



No-Code Tools



Domain-Specific Models



Real-Time Analytics

