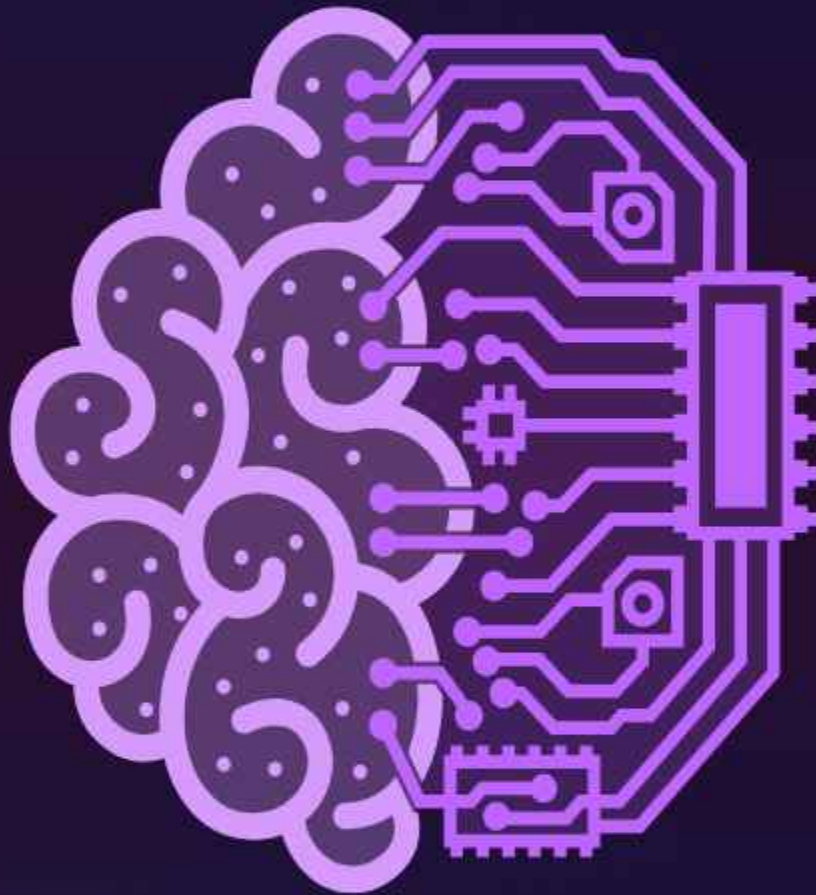


APRIL 2025

VOLUME 1 | ISSUE 1

COGNITRON



**INTELLIGENCE
MEETS
INNOVATION**



**DEPT OF ARTIFICIAL INTELLIGENCE & MACHINE LEARNING
AHALIA SCHOOL OF ENGINEERING & TECHNOLOGY**

OUR VISION

- College — VISION:**
 Grow as a centre of learning and research, transforming students to professionals with knowledge, skill, competence, commitment, confidence and ethics to serve the society

- Department — VISION:**
 To cultivate highly ethical and innovative AI and ML professionals via superior education, proficiency-based learning, advanced training, and impactful research, promoting sustainable technological advancements with competence and integrity

OUR MISSION

- College — MISSION:**
 To impart value-based education and promote curricular, co-curricular & extracurricular activities amongst students through extensive theoretical & practical training by qualified and experienced personnel using state-of-the-art facilities. To promote research and consultancy for institution development and contribution to the society

- Department — MISSION :**
 To equip students with advanced AI and ML skills to solve evolving complexities, driving sustainable and high-quality livelihoods. To foster a responsive learning space that encourages research, innovation, and entrepreneurial thinking in AI and ML, empowering students to create impactful solutions. To nurture ethical and proficient AI and ML professionals who contribute to societal welfare with integrity and responsibility.





Dr. P. R. Suresh
Principal – ASET

From Principal's Desk:

COGNITRON – AIML Department Newsletter

It gives me immense pleasure to pen a message for the inaugural edition of COGNITRON, the official newsletter of the Artificial Intelligence and Machine Learning (AIML) department of Ahalia School of Engineering and Technology, Palakkad. The AIML department, established in the year 2024, is still in its nascent stage, currently entering its second semester. Yet, it is heartening to see the passion and commitment demonstrated by the department in such a short span of time. I take this opportunity to congratulate Mr. Sunder V, Head of the Department, for his tireless efforts in bringing out this newsletter and for nurturing a vibrant academic culture within the department.

Though the department presently has strength of 23 students, the quality and consistency of the activities organized and conducted are truly commendable. This reflects the enthusiasm and proactive spirit of both the students and faculty members alike. I am confident that the AIML department will continue to scale greater heights and emerge as a hub of innovation and excellence in the field of artificial intelligence and machine learning.

Wishing the entire team behind COGNITRON continued success and many more inspiring editions in the future.



Dr. Krishna Kumar Kishor
Vice Principal – ASET

Words from Vice Principal:

I warmly welcome our community of students, parents and faculty members to the inaugural edition of COGNITRON, the newsletter of the Department of Artificial Intelligence (AI) and Machine Learning (ML). A hearty congratulations to the student editors and the faculty mentors for their efforts in bringing out this newsletter. The newsletter aims to inform our well-wishers about the activities of the department, the advancements in the field of AI & ML and experiences of our talented students. I wish you all a pleasurable read.

Words from HoD:



Sunder V
HOD AIML

I feel honoured to present to you a message in connection to the inaugural edition of COGNITRON — the official newsletter of the Department of Artificial Intelligence and Machine Learning. This marks a significant milestone in our department's journey toward fostering innovation, collaboration, and academic excellence. The field of AI and ML is evolving at an unprecedented pace, and it is our responsibility as educators and learners to stay at the forefront of this dynamic landscape. Cognitron aims to be a vibrant platform to showcase the wide array of activities, student and faculty achievements, and the spirit of innovation that defines our department. I extend my heartfelt congratulations to the entire editorial team, faculty, and students whose efforts have brought this publication to life. Let this be the beginning of a tradition that not only informs but also inspires. Here's to new beginnings and a future driven by knowledge and creativity. All the Very Best!!!



DIGITAL LITERACY: A bridge towards Digital Literacy

Digital literacy empowers individuals to access information, communicate effectively, and participate in the digital world. However, many still lack access to these skills, creating a gap in opportunities. This report highlights the importance of digital literacy, the steps to achieve it, and the challenges that must be overcome to bridge the digital divide.

We, AIML department of ASET decided to shorten this gap and conducted a program on 13 Feb 2025. Our HOD Sunder sir started the program with his welcome address which was followed by the chief guest, principal Suresh sir's speech. The whole program was led under the guidance and support of our HOD and then lab assistant Joel sir. The program taught the non-teaching staffs of ASET the potential and harms of digital world. It equipped participants with the knowledge and skills to navigate the digital world safely and efficiently.

The primary objective of this program was to bridge the knowledge gap and empower non-staff members with essential digital literacy skills. Many participants were unfamiliar with social media and its potential risks, making this program a vital initiative. Participants learned how to identify and avoid common online scams, including phishing, identity theft, and online harassment. The program covered the basics of the digital world, including online etiquette, cyberbullying prevention, and digital safety. Participants gained insights into social media platforms, including how to create a safe and secure online profile, spot fake news and propaganda, and maintain a healthy online presence. The program also addressed the risks associated with online gambling, emphasizing the importance of responsible gaming practices. The digital literacy program was a resounding success, with participants expressing gratitude for the knowledge gained. The program has empowered non-staff members to navigate the digital world with confidence, making them more aware of potential risks and better equipped to protect themselves online.



Write it Right: Unleash the Power of LaTeX

We AIML department of ASET recently hosted a two-day workshop on LaTeX, a powerful document preparation tool. The event, titled "Write it Right – Unleash the Power of LaTeX," was jointly organized by the Departments of AI&ML, ECE, CSE, and EEE.

The workshop, held on February 24-25, 2025, provided hands-on training for second-semester students from the participating departments. The sessions were conducted by Mr. Shyaman V P, a Ph.D. Scholar at NIT Calicut and Assistant Professor at Sree Narayana Guru College of Engineering & Technology.

The workshop was inaugurated by Dr. Suresh P R, Principal of Ahalia School of Engineering and Technology. The event was also attended by Dr. Gunashekharan S, HoD of CSE, and Dr. Balamurugan V, HoD of ECE, Sunder V, HoD of AI&ML, who delivered felicitation addresses.

The workshop received excellent feedback from participants, who praised the structured approach, practical exposure, and expertise of the resource person. The event concluded with a vote of thanks and the distribution of E-Certificates to all participants.

The LaTeX workshop was a significant initiative by department of AIML to equip students with essential skills for technical documentation and academic writing. The event demonstrated the departments commitment to providing students with hands-on training and practical experience in cutting-edge technologies. protect themselves online.



Divine Feminine

Our AIML department recently celebrated Women's Day on March 8 "international womens day" with great enthusiasm. As part of the celebrations, we organized a pencil drawing competition that saw enthusiastic participation from our students.

The competition was a huge success, with students showcasing their artistic talents. Our judges were impressed by the creativity and skill on display, making it a challenging task to select the best entries

After careful deliberation, we selected the top entries and awarded them with cash prizes and certificates. The winners were overjoyed and grateful for the recognition.

The Women's Day celebration was a testament to our departments commitment to empowering women and promoting gender equality. We are proud to have provided a platform for our students to express themselves and showcase their talents.



Career Catalyst

Under the direction of CEO Mr. Renjith Keshav, Insight Job Guru conducted a placement training session from December 13 to December 17, 2024. The curriculum helped students discover their talents, overcome their weaknesses, and cultivate a growth mindset through interactive workshops, motivational presentations, and management games.

In addition to providing valuable exam preparation tips, including time management and strategies for answering exam questions efficiently, Mr. Keshav also discussed goal-setting and motivation techniques.

Students explored engineering career options to align their academic objectives with their long-term ambitions. The management games encouraged teamwork, self-reflection, and active engagement.

This training provided students with a strong foundation, equipping them with the skills needed to excel in their first year and prepare for future challenges.



Aarambh: The Beginning

On Freshers' Day, the ASET family enthusiastically welcomed its newest members. The day was filled with enjoyable activities that encouraged new friendships and helped break the ice.

Morning Sessions

The day began with regular morning classes, laying the foundation for an exciting afternoon of celebrations.

Afternoon Festivities

The vibrant afternoon celebration featured:

Dance Performances: Freshers entertained the audience with their energetic stage performances.

Task Games: Seniors organized interactive games to assess the freshers' abilities and teamwork skills.

Musical Finale: Seniors and freshers came together to perform songs, creating a memorable conclusion to the day.

The Freshers' Day celebration was a great success, providing new students with the opportunity to socialize, have fun, and connect with the ASET community.



KALASH: Arts Day

ASET's Arts Day KALSH 2025 was a vibrant celebration of student creativity and talent. The event featured an array of captivating performances including solo, duet, and group dances and music, along with engaging literary events like poetry recitations and discussions.

The celebration provided a platform for students to showcase their artistic skills and express their creativity. Thanks to the dedication of both students and staff, KALSH 2025 was a resounding success and a memorable experience for all.



Festive Eve

On [20-12-2024], the ASET family gathered to celebrate the joyous occasion of Christmas. It was a day filled with happiness, cheer, and warmth.

Morning Treats: After regular lessons in the morning, students were treated to a delightful surprise. To spread the holiday spirit and foster togetherness, seniors shared portions of cake with their juniors.

Afternoon Activities: The afternoon celebration featured a fantastic band performance that had everyone moving. The delicious cuisine further enhanced the festivities, making the Christmas event at ASET truly remarkable.



Symphony of the Year

College Day Celebration

The College Day celebration was a grand event filled with excitement and nostalgia. The morning section buzzed with speeches and prize distributions to the winners of the Arts Day celebration, followed by a delightful lunch. The afternoon brought a surprise for seniors as their portraits were hanging in a classroom, reviving cherished memories. The day concluded with Punarjini, where students shared their college experiences, and a thrilling session of dare programs added a fun-filled ending to the celebration.



Code Crusade

Students from all departments participated in a quiz competition hosted by the Technocrafts Coding Club, which focused on the fundamentals of Python programming and logical reasoning. A total of 53 students participated, demonstrating their familiarity with and enthusiasm for the Python programming language. Our principal, Dr. P. R. Suresh, along with Dr. S. Gunasekaran, the head of the CSE department, and Dr. R. Sivakumar, the head of the AI&ML department, presented the winners with cash prizes.

Arunprakash J. from the Department of AI&ML won the first prize of ₹1,000. The competition was organized by the Coding Club event coordinators of the CSE department.



Step into the group of AI liking people

The inauguration of the AI Club Student Chapter at our college marked a significant step toward promoting Artificial Intelligence awareness and innovation among students. The event was organized under the guidance of the AI Club, Palakkad Division, and was held with great enthusiasm and participation. The newly formed student chapter currently includes members from B.Tech CSE and AIML departments. Plans are in place to expand membership to students from other branches in the near future, encouraging interdisciplinary collaboration and learning. The inaugural function began with a warm Welcome Address by Mr. Sunder V, Head of the AIML Department. Following this, Dr. Suresh P R, Principal of the college, delivered the Presidential Address, highlighting the importance of AI in modern education and encouraging students to actively participate in the club's initiatives. The highlight of the event was the formal inauguration by Mr. Ramachandran, President of the AI Club, Palakkad Division. He spoke about the vision and objectives of the AI Club and the immense opportunities it can bring to aspiring technologists and innovators. The event concluded on a positive note, with students expressing keen interest in upcoming activities, workshops, and knowledge-sharing sessions to be conducted under the banner of the AI Club. This initiative is expected to play a pivotal role in nurturing technical skills, promoting research, and building a strong AI community within the college.



Outside World Collaborations

Mr. Sunder V, HoD AI&ML, delivered a talk on the topic "Ethics and Security in day-to-day AI" in connection with the inauguration function of CSE department Association of Model Residential Polytechnic College, Kuzhalmannam, Palakkad on 24th Jan 2025.



GameOn!: Sport's Day

Ahaila school of engineering and technology recently hosted its annual Sports Day, showcasing students' athletic powers and teamwork. The event featured track and field events, team sports, and exciting activities. Students competed with enthusiasm, cheered on by peers and faculty. Winners received medals and certificates, with claiming the overall championship trophy. The day fostered with unforgettable memories.



CodeRush: Hackathon

Inaugurated by Department of Computer Science and Engineering. They hosted a hackathon, where students showcased their coding skills, creativity, and teamwork. Participants developed innovative solutions to real-world problems, with winning teams receiving prizes and recognition. The event fostered innovation, collaboration, and problem-solving skills among students.



DRONE FLYING APPLICATION AND TECHNOLOGY

Ahalia School of Engineering and Technology, in association with Asia Softlab Pvt. Ltd., organized a one-day workshop on Drone Flying – Applications and Technology on January 24, 2025. With 36 students participating, the workshop featured sessions on drone technology, mission planning, assembly, and a live flying demonstration, providing valuable hands-on experience and practical knowledge of drone applications.

Best wishes to Joel Sir for your new venture:

It's hard to say goodbye to someone who has made a significant impact on our lives. As we bid farewell to

our beloved Joel Sir, we can't help but feel a mix of emotions -

gratitude and appreciation.

During his time at our college, Joel Sir has been an exceptional educator, mentor, and friend to many students. His passion for teaching, dedication to his work, and kindness towards his students have made him a cherished figure on campus.



A word of thanks to our beloved Tutor:

On behalf of our class, we express our heartfelt thanks to you, Chippy miss, for your constant support, guidance, and encouragement throughout the year. As our class tutor, you have always been there to listen, help, and motivate us, both academically and personally. Your patience, understanding, and dedication have made a big difference in our college experience, and we are truly grateful to have had you by our side.

Thanks for everything...





AHALIA GROUP
Ahalia C



100% Voter Campus

AEmpowering Democracy Through Voter Participation

Ahalia recently organized a successful initiative to promote complete voter participation, emphasizing the significance of civic responsibility and the power of every single vote. The event was graced by Ms. Priyanka G., IAS, District Collector & District Election Officer, Palakkad, who felicitated the efforts taken to strengthen democracy. This initiative underscores the importance of active participation in the democratic process.



LAHARI MUKTHA KERALAM

Awareness Against Substance Abuse

Ahalia Group and the Kerala State Youth Commission joined forces to organize the "Lahari Muktha Kerala" awareness program on March 6, 2025. The event aimed to educate students and teachers about the dangers of alcohol and drug abuse. Key dignitaries, including Kerala Minister Shri Krishnankutty and Excise Deputy Commissioner Shri Y. Shibu, participated in the program, which was held at the AWACH Auditorium on the Ahalia Campus. The initiative is part of the YAAD campaign, which seeks to promote a drug-free society through awareness and outreach efforts.



INTER-ZONE TUG OF WAR COMPETITION

ASET students actively participated in the Inter-Zone Tug of War competition held at UKF College of Engineering, Kollam. The event featured a spirited performance by the AIML department, who demonstrated remarkable teamwork, strength, and determination. Among the standout performers were Dhanush and Ajeeth from AIML, whose enthusiasm and competitive spirit left a strong impression and brought pride to the institution.



Enhancing Engineering Skills with Mathematical Software

The Department of Science and Humanities organized a seminar on "Mathematical Software for Engineers: An Introduction to MAXIMA Software" on November 14, 2024. The event, led by Dr. Binoy Balan K., aimed to equip first-year B.Tech students with crucial mathematical tools and skills essential for their engineering careers, focusing on practical applications and problem-solving.



Bhakshyadhara 2.0: ASET NSS Unit's Food Donation Camp

The NSS unit of ASET organized Bhakshyadhara 2.0, a food donation camp, on March 27, 2025. Over 200 food packets were collected from students and staff and distributed to those in need in Palakkad town. We, Agraja and Sreya from AIML, coordinated this initiative. We thank all donors for their kindness and generosity, which has made a significant impact on the lives of those in need.



Sanjeevanam 5.0: Blood Donation Camp

Ahalia School of Engineering and Technology's NSS unit and Ahalia Blood Bank jointly organized a blood donation camp on March 7, 2025. Many staff and students participated in the event. Contributors from AIML, including Adhwaith Mohan, Sachin, and Ajeeth Shankar, donated blood to support the noble cause. NSS_ASET extends its gratitude to all participants and organizers.

Microsoft's Quantum Computing: Pioneering the Future of Technology

MAJORANA 1



Microsoft has emerged as a leader in quantum computing, a transformative field that leverages quantum mechanics principles like superposition and entanglement to solve problems beyond classical computers' capabilities. The company is developing a scalable, fault-tolerant quantum system to address real-world challenges in cryptography, materials science, and artificial intelligence. Central to its efforts is the Quantum Development Kit (QDK), which includes the Q# programming language, simulators, and libraries, making quantum computing accessible to researchers and developers.

Microsoft is also pioneering topological qubits, which use Majorana fermions to create more stable and error-resistant qubits compared to traditional ones, though this technology remains experimental. Through its Azure Quantum platform, Microsoft offers cloud-based access to quantum hardware and software, enabling businesses and researchers to explore applications in optimization, machine learning, and drug discovery.

Quantum computing could revolutionize cryptography by breaking traditional encryption, accelerate materials science by simulating molecular structures, and enhance AI through faster predictions. However, challenges like qubit stability and error rates persist, and practical, widespread use may take years. Microsoft's focus on topological qubits, innovative tools, and strategic partnerships positions it as a key player in the quantum revolution, with the potential to transform industries and solve some of the world's most complex problems.



The History and Evolution of ChatGPT

CHATGPT



Artificial Intelligence has made remarkable progress, with ChatGPT by OpenAI standing out as a transformative advancement in human-AI interaction. Starting with GPT-1 in 2018, OpenAI laid the groundwork for language models trained on extensive text data, though it struggled with complex contexts.

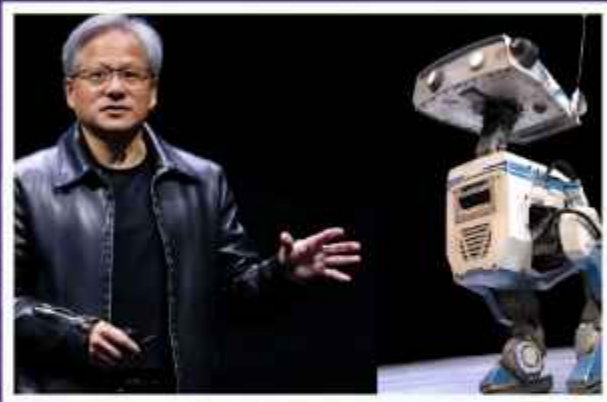
GPT-2, released in 2019 with 1.5 billion parameters, showcased improved text generation, sparking ethical debates and initially limiting its release due to misuse concerns. The breakthrough came with GPT-3 in 2020, boasting 175 billion parameters and enabling more natural, insightful conversations, though it occasionally faced issues with biases and inaccuracies.

In late 2022, OpenAI introduced ChatGPT, based on GPT-3.5, optimized for dialogue and widely adopted in customer support, education, and personal assistance. The release of GPT-4 in 2023 further enhanced reasoning, accuracy, and multimodal capabilities, allowing text and image processing. Today, ChatGPT continues to evolve with real-time web access, customization, and improved interaction tools, becoming indispensable across industries like journalism and coding. Its ongoing development highlights both the potential and challenges of AI, redefining the boundaries of human-like machine conversation.



NVIDIA Unveils Project GROOT: A Game-Changing AI-Powered Humanoid Robot

GROOT



Equipped with advanced sensors, including cameras, LiDAR, and microphones, GROOT boasts multimodal perception, enabling it to recognize objects, people, and environments in 3D with precision. Powered by the Jetson AGX Orin, a compact AI supercomputer, the robot processes data in real time, making split-second decisions without relying on cloud computing. Its humanoid design complete with arms, legs, and a sensor-filled head allows it to navigate human-centric spaces like homes, hospitals, and factories, while its ability to collaborate with humans and other robots enhances efficiency.

Supported by NVIDIA's Omniverse for realistic AI training and specialized foundation models for faster learning, GROOT is designed to generalize across tasks and environments. However, its adoption raises challenges, including potential job displacement, privacy concerns due to its sensors, and the need for safety and reliability in human interactions, as well as ethical guidelines to prevent misuse in areas like surveillance or military applications. Despite these hurdles, Project GROOT represents a monumental advancement in robotics, with the potential to revolutionize industries, enhance human-robot collaboration, and improve quality of life, paving the way for a new era of intelligent, human-centric robotics.

NVIDIA has introduced Project GROOT (Generalist Robot 00 Technology), a revolutionary AI platform designed to power the next generation of humanoid robots, marking a major milestone in robotics. Combining advanced artificial intelligence with human-like design, GROOT can learn, adapt, and perform complex tasks in real-world environments. Built on NVIDIA's Jetson platform and Omniverse, the robot uses reinforcement learning and simulation training to master tasks in virtual environments before applying them in the physical world, ensuring it can handle dynamic situations like crowded spaces or uneven terrain.

NVIDIA envisions GROOT transforming industries, from healthcare, where it could assist with patient care and repetitive tasks, to manufacturing, where it could handle delicate or dangerous assembly line work, and retail, where it could manage inventory or serve as a customer assistant. For domestic use, GROOT could help with chores like cleaning and cooking, offering companionship to elderly or disabled individuals, while in exploration and disaster response, it could navigate hazardous environments and perform search-and-rescue operations.



AI and Neurotechnology Take Center Stage at Synapse Conclave: Experts Weigh Risks and Opportunities

SYNAPSE



Humanoid robot Sophia with Synapse's Shoma Chaudhury and David Hanson of Hanson Robotics, which developed her

The Synapse Conclave, a prominent event exploring the intersection of artificial intelligence (AI) and neurotechnology, brought together experts to discuss the transformative potential and ethical challenges of these rapidly advancing fields. Key topics included the rise of AI models like ChatGPT, the integration of AI with brain-computer interfaces, and the societal implications of neurotechnology. Speakers highlighted how AI is revolutionizing industries but also raised concerns about privacy, data security, and the potential misuse of neurotechnology for surveillance or manipulation.

One of the focal points was the development of "agent models," AI systems capable of autonomous decision-making, which could reshape everything from healthcare to warfare. While experts acknowledged the benefits, such as improved medical diagnostics and personalized education, they also warned of the risks, including job displacement and the erosion of human agency. The conclave emphasized the need for robust regulatory frameworks to ensure these technologies are developed and deployed responsibly.

The event concluded with a call for interdisciplinary collaboration among scientists, policymakers, and ethicists to navigate the complex landscape of AI and neurotechnology. As these technologies continue to evolve, the discussions at Synapse underscored the importance of balancing innovation with ethical considerations to harness their potential for the greater good.



Elena Sergeeva, neuroscientist inventing new bio-forms, at Synapse Conclave

AI in Everyday Life – A Quiet Revolution

When we think of Artificial Intelligence, it's easy to imagine humanoid robots or complex algorithms solving world problems. But AI is already deeply woven into our daily lives quietly, subtly, and constantly.

Morning to Night with AI

From the moment you unlock your phone with facial recognition, AI is at work. Your email app filters spam, your voice assistant sets alarms, and your news feed curates stories based on your interests. AI understands your preferences not because it knows you in a human way, but because it sees patterns in data. It learns and adapts.

Smart Decisions, Simple Tasks

AI helps businesses predict trends, helps doctors detect diseases early, and even helps farmers monitor crops. And while we scroll through personalized playlists or navigate traffic-free routes, we rarely pause to appreciate the intelligence behind the convenience.

The Invisible Teacher

For students and educators, AI offers personalized learning experiences. Adaptive learning platforms can now identify individual strengths and weaknesses, customizing the content accordingly. It's not replacing teachers it's becoming a quiet co-teacher in the digital age.

A Future to Shape Together

As future engineers, thinkers, and innovators, it's vital to understand not just how AI works but also how responsibly it should be used. Ethical AI, fairness in data, and transparency in algorithms are not just buzzwords they are the building blocks of a better future.

AI isn't just the future. It's already here. And it's learning from us.

By Reshma P K
Assistant Professor, AIML Department

SI TOP SCORERS



Anjana Prakash
(SGPA 8.9)



Sankar Krishna
(SGPA 7.7)



Aksharaa D
(SGPA 7.30)



Anamika S
(SGPA 7.23)



Sreya S
(SGPA 7.23)



Vithul M
(SGPA 7.2)



Hiba Fathima M
(SGPA 7.15)



Ashrith Vachan
(SGPA 7.03)



Gayathri K
(SGPA 7.03)



Agraja Ammal A
(SGPA 6.9)



Irfana Izath I
(SGPA 6.69)



A Harikrishnan
(SGPA 6.6)



Anirudh V
(SGPA 6.4)



Neha PR
(SGPA 6.4)



NEHA PR
S2 | AI&ML



HIBA FATHIMA M
S2 | AI&ML



NEHA PR
S2 | AI&ML

Sinking Hole

I'm sinking deep, like in the ocean blue
Feeling lost, with no direction to pursue
Nightmares haunt me, like a never-ending sea
I'm searching for a lifeline, to set me free

I'm in a boat, with a hole in the floor
Even as I sail, I'm sinking more and more
I'm trying to stay afloat, but it's hard to breathe
The feeling of sinking, with nothing to hold out there

Sometimes I'm lost in a maze, with no way out
Sometimes in a forest, where shadows shout
I yearn to break free, from this endless roam
To find solace in a peaceful, safe home

I long to walk on grass, to feel the sun's warm rays
To close my eyes and bid the darkness fade away
I'm searching for a shore, from life's turbulent sea
A haven where I can heal, and be me

~ Aksharaa



PROGRAM EDUCATIONAL OBJECTIVES (PEO)

- 1 Graduates will develop a solid foundation in AI and ML through a comprehensive curriculum and skill-based learning, enabling them to analyze, design, and implement intelligent solutions for real-world challenges.
- 2 Graduates will cultivate an innovative mind-set, entrepreneurial spirit, and problem-solving abilities, equipping them to excel in industry roles, establish start-ups, or pursue higher education and research in AI and ML.
- 3 Graduates will uphold ethical AI practices, responsibly leveraging AI and ML to create sustainable, inclusive solutions that enhance quality of life, while demonstrating leadership and integrity in their careers.

PROGRAM SPECIFIC OUTCOME (PSO)

- 1 Graduates will be able to apply core AI and ML principles, computational techniques, and modern tools to develop intelligent, scalable, and sustainable solutions for real-world challenges across various domains.
- 2 Graduates will demonstrate innovation, entrepreneurial thinking, and ethical responsibility in designing AI-driven applications, contributing to technological advancements, societal well-being, and sustainable development.





PROGRAMME OUTCOMES (POS)

- 1 Engineering knowledge
- 2 Problem analysis
- 3 Design/development of solutions
- 4 Conduct investigations of complex problems
- 5 Modern tool usage
- 6 The engineer and society
- 7 Environment and sustainability
- 8 Ethics
- 9 Individual and team work
- 10 Communication
- 11 Project management and finance:
- 12 Life-long learning





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