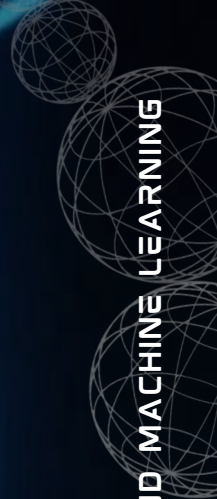




SREYAS
INSTITUTE OF ENGINEERING AND TECHNOLOGY
AUTONOMOUS



COMPUTER SCIENCE ENGINEERING-ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

WHERE MACHINES LEARN TO THINK

2022-2023

VOLUME-1

AILYRA



INSTITUTIONAL

MISSION

To be a centre of excellence in technical education to empower the young talent through quality education and innovative engineering for well being of the society

1. Provide quality education with innovative methodology and intellectual human capital.
2. Provide conducive environment for research and developmental activities
3. Inculcate holistic approach towards nature, society and human ethics with lifelong learning attitude.

MISSION

DEPARTMENTAL

MISSION

To produce competent professionals in the field of AI&ML by imparting state-of-art technologies and inculcating strong ethical values.

- M1: To impart technical education competency with high quality educational practices through qualified human resources and provisioning of good infrastructure.
- M2: Accomplish process to enhance knowledge in the academic and foster research-oriented environment.
- M3: To encourage education-oriented learning and social responsibility with professional ethics.

MISSION

PROGRAM EDUCATIONAL OBJECTIVES

- 1) Graduates will be empowered with strong fundamental concepts, analytical capability, programming & problem solving skills
- 2) Graduates will be employed, or may pursue higher education or may undertake research
- 3) Graduates will lead in their profession with integrity & civic responsibility & a continuous learning attitude

ADMINISTRATION



SRI ANANTULA VINAY KUMAR REDDY CHAIRMAN

Sri Anantula Vinay Kumar Reddy is the Chairman of Sreyas Institute of Engineering and Technology. He has a vision to make Sreyas a premier engineering institution and believes the college provides a great environment for students to learn and grow.



SRI CHINTALA RAVINDRANATH YADAV SECRETARY

Sri Chintala Ravindranath Yadav is the Secretary of the Sreyas Institute of Engineering and Technology. He promises students a nurturing environment for academic and personal excellence, preparing them for successful engineering careers through rigorous programs and industry connections.



SRI NIRVETLA SHARATH REDDY

Sri Nirvetla Sharath Reddy, Treasurer and CEO, emphasizes SREYAS's commitment to student success through top-notch education, innovative technology, and a vibrant campus life. With a focus on addressing students' needs and fostering practical skills, SREYAS prepares students to excel in a competitive world.



SRI HRIDAY REDDY VICE-CHAIRMAN

Mr. Hriday Reddy is the Vice Chairman of Sreyas Institute of Engineering and Technology. He says, "Education is about imparting knowledge and inspiring minds, nurturing potential, and shaping future leaders. Together, we build a legacy of excellence and innovation."



DR. S. SAI SATYANARAYANA REDDY

Dr. S. Sai Satyanarayana Reddy, Principal of Sreyas Institute of Engineering and Technology, is a distinguished academic with a PhD in CSE and 28 years of experience. A Senior IEEE Member and IETE Fellow, he has published over 80 papers, authored a book, and secured 8 patents. He's received numerous accolades, including the prestigious Vidya Ratna award for his contributions.

ABOUT THE DEPARTMENT

Welcome to the CSE (AI&ML) Department Magazine!

The world of technology is evolving at an unprecedented pace, and the Department of Computer Science and Engineering (Artificial Intelligence and Machine Learning) is at the forefront of this transformation. This magazine serves as a window into our vibrant department, showcasing our students' and faculty's achievements, creativity, and aspirations.

Why a Magazine?

A department magazine is a collection of articles and a platform that brings our community together, fosters innovation and inspires creativity. Here's why it matters:

- **Showcase of Talent:** It highlights the accomplishments of students and faculty, whether they are groundbreaking projects, research papers, or innovative solutions to real-world problems.
- **Knowledge Sharing:** By sharing insights on emerging trends in CSE (AI&ML), from deep learning to robotics, the magazine serves as a valuable resource for enthusiasts and experts alike.
- **Community Engagement:** It acts as a bridge, connecting current students, alumni, and industry professionals, creating a collaborative ecosystem.
- **Inspiration:** Stories of success, perseverance, and innovation fuel inspiration for budding technologists.

The CSE (AI&ML) department is a hub of cutting-edge technology and research. Our curriculum is designed to prepare students for the challenges of the digital era, equipping them with expertise in:

- Machine Learning and Deep Learning
- Natural Language Processing
- Computer Vision
- Data Science and Big Data Analytics
- AI Ethics and Responsible AI

With a strong focus on hands-on learning, our department emphasizes practical knowledge through hackathons, workshops, internships, and industry collaborations. We pride ourselves on fostering a culture of curiosity, innovation, and critical thinking.

Inside This Issue

This magazine brings you:

- Insights into innovative projects and research undertaken by our students.
- Updates on department events, seminars, and industry collaborations.
- Thought-provoking articles and tutorials on the latest trends in CSE (AI&ML).

Let's dive into the world of Artificial Intelligence and Machine Learning!

We hope this magazine inspires you, educates you, and ignites your passion for technology. Together, let's shape the future!

HEAD OF DEPARTMENT



Why Our Department Stands Out:

- **Faculty Excellence:** Our distinguished team comprises not only esteemed professors but also accomplished researchers with extensive real-world expertise. They are deeply committed to imparting their knowledge and mentoring students through pioneering research initiatives that push the boundaries of innovation.
- **Industry-Aligned Preparedness:** Far beyond theoretical instruction, our curriculum is dynamically crafted to mirror the latest advancements in industry trends. Bolstered by robust partnerships with leading AI enterprises, we ensure our graduates are exceptionally equipped to excel in the professional landscape.
- **A Culture of Collaborative Innovation:** Artificial Intelligence flourishes through interdisciplinary synergy. We dismantle departmental silos, cultivating an enriching environment where students collaborate across disciplines to devise transformative solutions to the most intricate global challenges.

Leading the CSE (AI & ML) Department at Sreyas Institute of Engineering and Technology is an honor I hold in the highest regard. Artificial Intelligence and Machine Learning are revolutionizing the global landscape, and I take immense pride in cultivating the next generation of visionary innovators within this dynamic discipline.



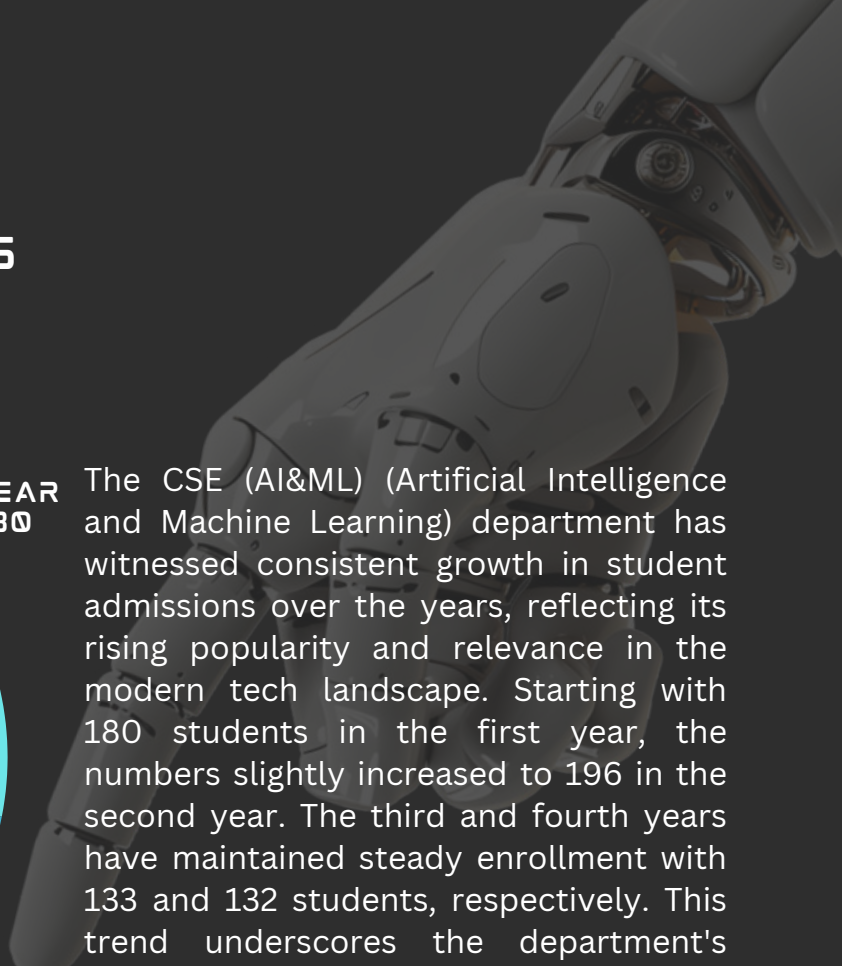
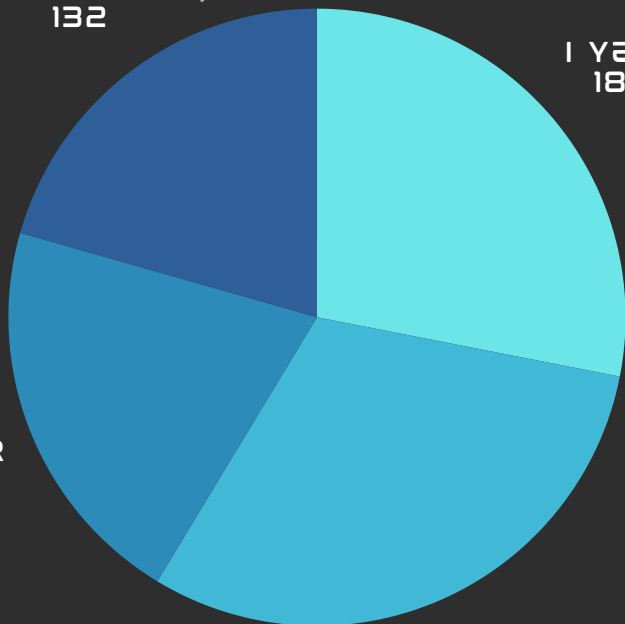
CSE(AI&ML) STUDENTS

IV YEAR
132

I YEAR
180

III YEAR
133

II YEAR
196

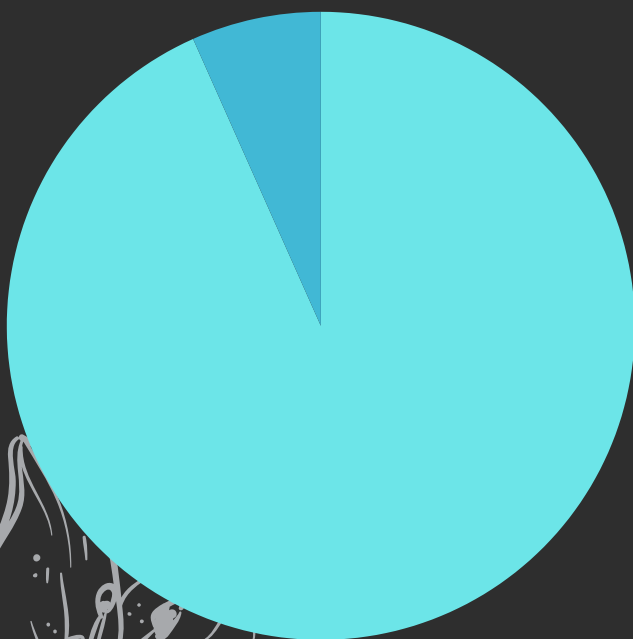


The CSE (AI&ML) (Artificial Intelligence and Machine Learning) department has witnessed consistent growth in student admissions over the years, reflecting its rising popularity and relevance in the modern tech landscape. Starting with 180 students in the first year, the numbers slightly increased to 196 in the second year. The third and fourth years have maintained steady enrollment with 133 and 132 students, respectively. This trend underscores the department's commitment to nurturing future-ready professionals in the rapidly evolving field of AI and ML.

CSE(AI&ML) DEPARTMENT FACULTY

LAB FACULTY
6.7%

TEACHING FACULTY
93.3%



The CSE (AI&ML) department thrives on the strength of its exceptional faculty, comprising 28 experienced teaching staff and 2 specialized lab faculty members. Together, they ensure a holistic learning environment, blending academic rigour with practical exposure. The teaching faculty focuses on delivering in-depth knowledge of AI and ML concepts, fostering innovation, and encouraging research. Meanwhile, the lab faculty provides hands-on training with cutting-edge tools and technologies, bridging the gap between theory and application.

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EVENTS & PARTICIPATIONS

HACKATHON 2K22



The Hackathon 2K22 at Sreyas Institute of Engineering and Technology was a full-day celebration of innovation held on March 12, 2022. Sponsored by Coding Ninjas, Career Bridge IT, and others, the event drew bright minds from multiple branches. It featured competitions like Idea Presentation, Web/App Development, Coding, Robotics, and more—providing students with a platform to apply, compete, and collaborate.




IDEA PRESENTATION



In the Idea Presentation event, students showcased their creativity and innovation. Ch. Ashritha and M. Rushitha (CSE-DS, 1st Year) secured the first prize with ₹1,000. The second prize of ₹500 went to A. Vignesh, Jayanth, Hruthik Verma, and Santhosh (CSE-AI&ML, 1st Year). R. Nethra, T. Sriya, K. Adithya, and M. Varun (CSE, 1st Year) won a ₹5,200 subscription as the third prize.

ROBOTICS MODEL DISPLAY



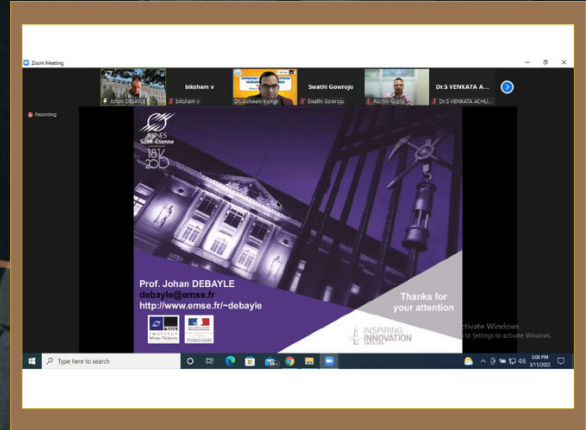
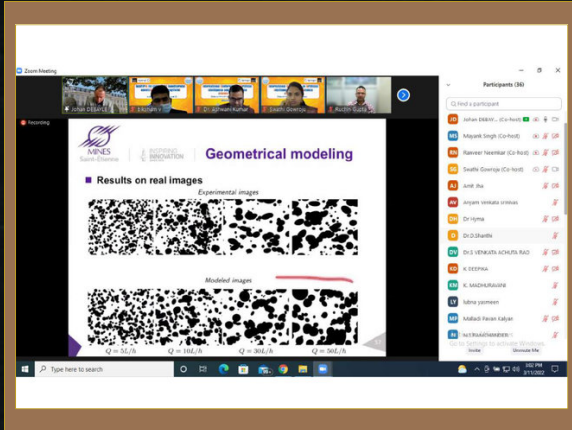
In the Robotics Model Display, students from 1st Year Mechanical impressed the judges with their creativity and technical skills. P. Sai Vishruth, V. Shiva, Maanveeth, and V. Sai secured the first prize and were awarded a cash prize of ₹1,000.



ICAIDS-2022

International Conference on Artificial Intelligence and Data Science

Sreyas Institute of Engineering and Technology is the result of meticulous planning, with a mission to provide world-class technical education. Nestled within a verdant and thoughtfully designed campus, Sreyas offers a calm yet vibrant environment ideal for learning and growth. Equipped with cutting-edge computing infrastructure, modern labs, and skill-enhancing workshops, the institute empowers students to become future-ready professionals through a blend of theory, research, and real-world exposure.

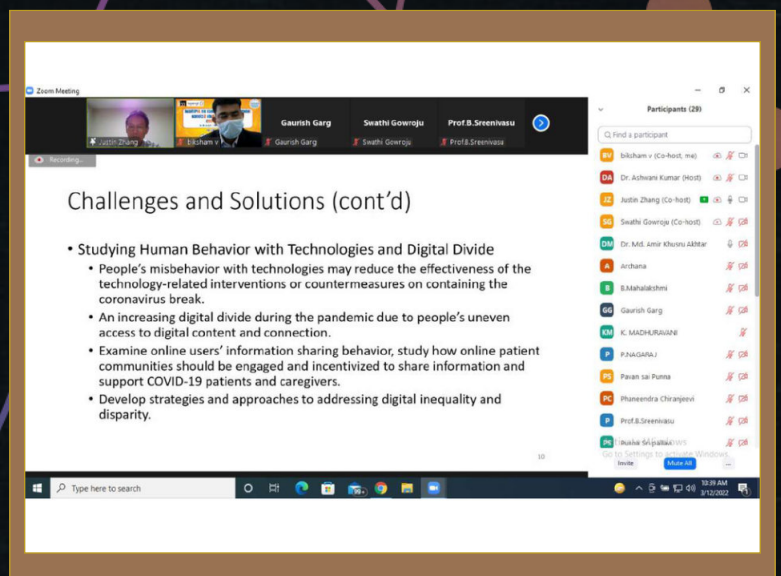


ABOUT THE CONFERENCE

The International Conference on Artificial Intelligence and Data Science (ICAIDS-2022) served as a global platform for scholars, researchers, and professionals to share advancements in AI and data science. Held on March 11–12, 2022, the conference featured plenary talks, parallel technical sessions, and keynote lectures by eminent personalities. It provided an open forum to discuss current trends, research findings, and collaborative opportunities across academia and industry.

CALL FOR PAPERS

Researchers, students, and faculty from around the world were invited to submit papers on Artificial Intelligence and Data Science. Selected papers would be published in the Springer Series and indexed in Scopus, Web of Science, and Google Scholar.



WINNER - INNOVASIA 2023



On 2nd December 2023, students from Sreyas Institute of Engineering and Technology won 1st Prize at Innovasia 2023, hosted by Vasavi College of Engineering. Their project, Fit-Mate, is a user-friendly desktop exercise assistant that guides users through simple yoga asanas in a limited space and time. It supports both single and double room modes, promoting health and productivity through smart posture recognition.

RUNNER-UP - HASH-IT-OUT 2023 (SDC)

A team from Sreyas Institute of Engineering and Technology won Runner-Up at the HashItOut hackathon, hosted by SDC, Sreenidhi Institute, on 6th October 2023. Their project, Doc Chat, is an AI-powered chatbot that reads PDF documents and answers user queries using OpenAI integration.



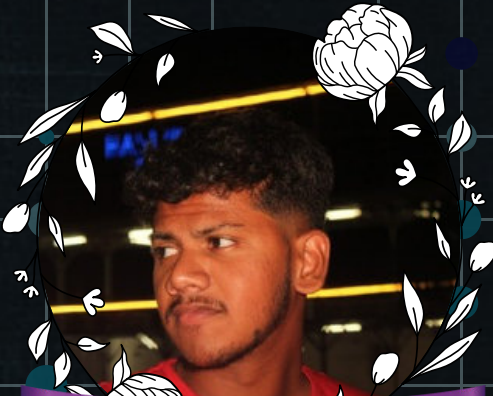
ROLL OF HONOR

The ones worth a mention.



THE NETWORKER

R. V. V. Nikhil



THE ACHIEVER

D. D. Savio Kennedy



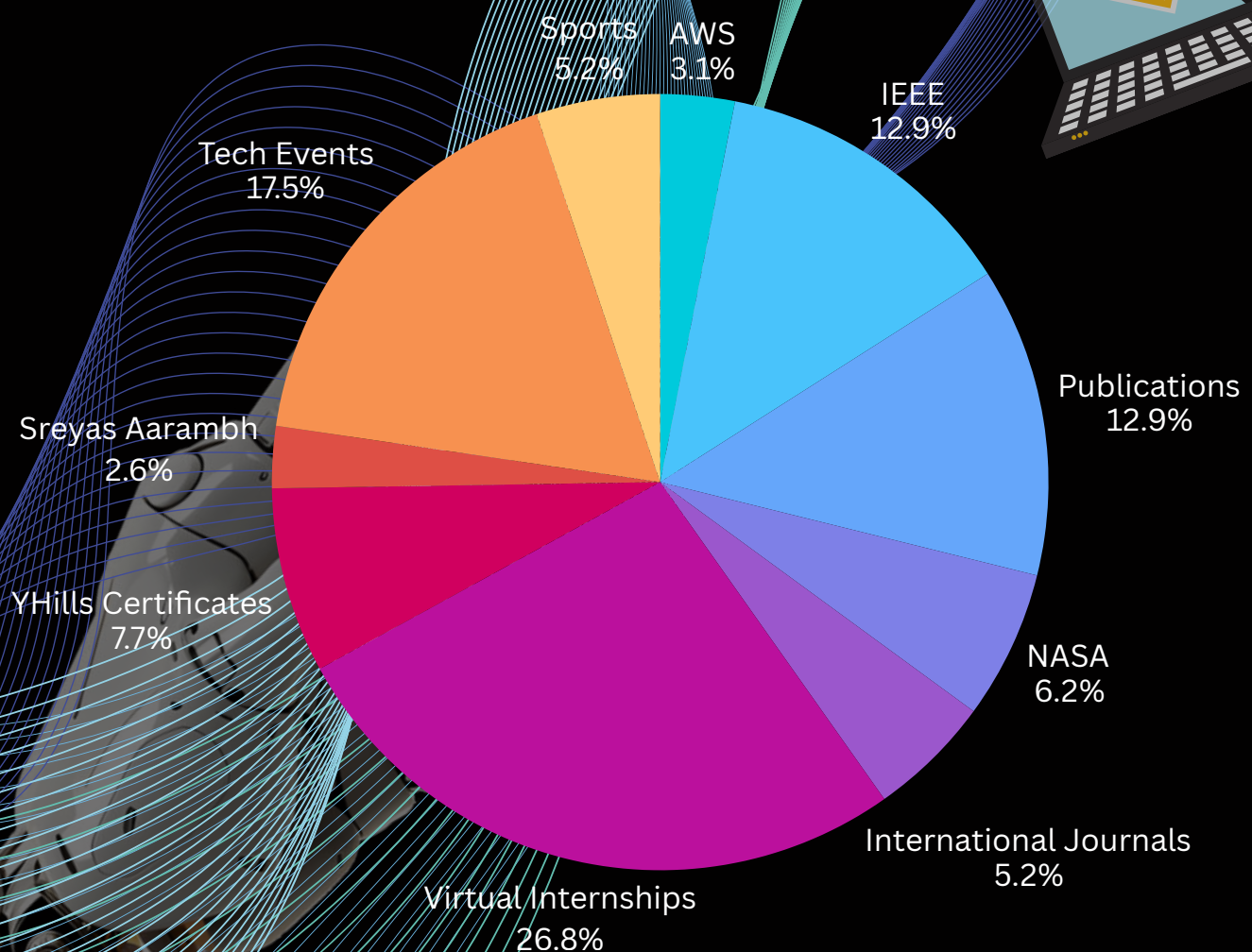
THE ARTIST

Ismath Fathima

CERTIFICATION

NPTEL, External & Industrial

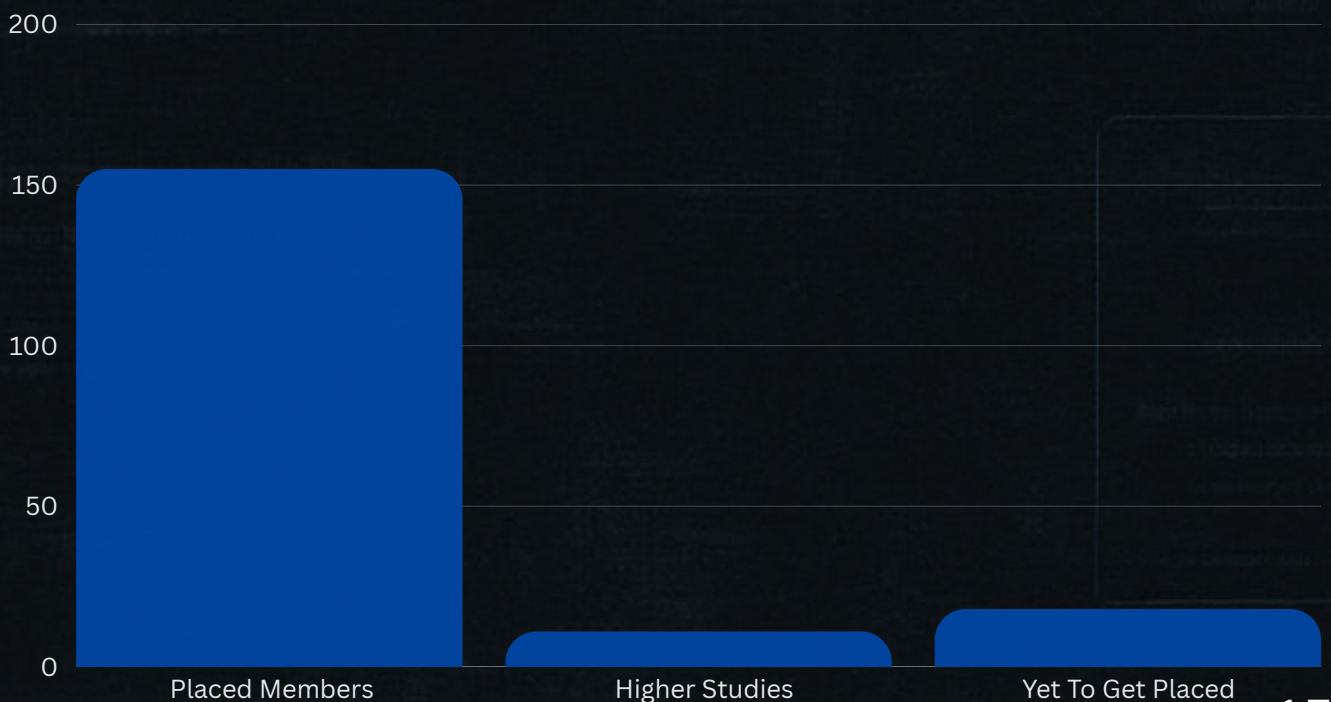
Throughout the course of the 2022 batch's AI&ML learning, there were around 200 students attending various hackathons, internships and events across the state.



PLACEMENTS CSE (AI&ML) GRADUATES: CHARTING INDIA'S AI FUTURE!

The Sreyas Institute of Engineering and Technology is immensely proud to celebrate the remarkable achievements of its Computer Science and Engineering (Artificial Intelligence & Machine Learning) students in the recent placement season, exemplifying excellence in every stride.

Our recent batch of CSE (AI&ML) graduates has truly demonstrated exceptional talent, achieving a robust Placement Index of 66.4%. This comprehensive metric, reflecting 74 students placed in top-tier companies like Amazon, Microsoft, and Accenture, 11 students admitted to higher studies, and those pursuing entrepreneurial ventures, showcases the diverse and impactful pathways our students forge. These individuals are poised to significantly impact the ever-evolving field of AI and machine learning, landing coveted positions with impressive salary packages. The highest package offered this year stands tall at an impressive 18 LPA, coupled with an average package exceeding 5 LPA, a testament to the strong industry demand for graduates equipped with a deep understanding of AI and its applications. This success is a culmination of the unwavering dedication of both our students and faculty, supported by a rigorous curriculum focused on practical learning and industry-aligned projects. We are incredibly proud of our students' hard work, perseverance, and exceptional talent, which has not only secured them promising futures but also brought immense recognition to the Sreyas Institute.



LATEST IN TECH

1 The rise of ChatGPT

November, OpenAI launched ChatGPT, making advanced AI accessible to everyone. It quickly went viral, with students, developers, and professionals using it for writing, coding, and more. Its sudden popularity kicked off a global wave of interest in generative AI, sparking debates on its impact across industries. More on page 13.



The Metaverse Hype 2

Meta (formerly Facebook) doubled down on its vision for the metaverse, investing billions into virtual reality platforms. The company released new VR hardware and showcased digital spaces for work and play. While the tech was impressive, real-world adoption lagged, and public interest faded, leading many to question the future of the metaverse hype.

3 Elon Musk Buys Twitter

Elon Musk acquired Twitter for \$44 billion in October, triggering massive changes within the company. From firing top executives to shifting platform policies overnight, the takeover sparked both excitement and concern. It marked one of the most dramatic leadership shakeups in tech history.



Google's LaMDA Sparks Debate 4

In July, a Google engineer publicly claimed that LaMDA, an internal AI language model, had become sentient. While experts dismissed the claim, it reignited global conversations around AI consciousness, ethics, and the boundaries of machine intelligence. Google later dismissed the engineer and reiterated that LaMDA was not sentient. More on page 14

5 Foldables Go Mainstream

Samsung released the Galaxy Z Fold 4 and Flip 4, pushing foldable phones further into the mainstream. With better durability, smoother displays, and improved software, these devices showed that foldables were more than just experimental — they were ready for everyday use.

Total spending *by and on* Big Tech in 2022 crossed \$1.25 trillion, including R&D, acquisitions, infrastructure, and advertising — more than the GDP of most countries.

6 Quantum Computing Gets Real-er

IBM's new 433-qubit "Osprey" chip just dropped, and while we're still years away from quantum iPhones (lol), this is serious progress. Researchers say we're inching closer to quantum advantage, where these machines might actually outclass classical ones in practical tasks. It's still deep-nerd territory, but make no mistake — the quantum race is heating up.



Crypto Goes Boom

7

From NFTs of bored monkeys to the total collapse of FTX, 2022 has been pure whiplash for crypto. Bitcoin crashed. Ethereum merged to proof-of-stake. Sam Bankman-Fried, once a crypto king, is now under investigation. It feels like the wild west is catching up to its own lawlessness — and a lot of people lost real money.



8 AI Image Generators Take Over the Internet

First it was ChatGPT. Now it's DALL-E 2 and Midjourney — tools that turn text into stunning images. People are generating magazine covers, movie posters, and freakishly realistic art from single-line prompts. It's fun, sure, but artists are freaking out, and we're all wondering: who owns AI art, anyway?



DALL-E

Tech Layoffs Start Hitting Hard

9

After years of aggressive hiring, Big Tech is suddenly cutting back. Meta, Amazon, Twitter — all downsizing. The market's shaky, ad revenues are dipping, and growth is slowing post-COVID. For the first time in a decade, it feels like the invincibility of tech giants is being questioned



10 EVs Go Vroom

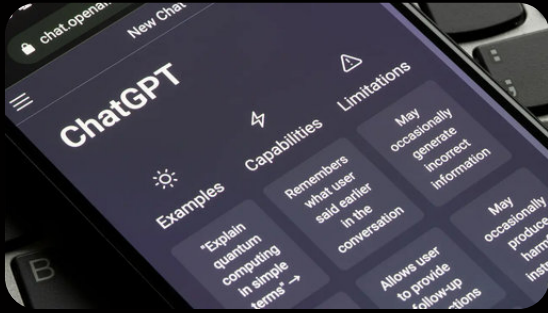
Electric cars are everywhere in 2022. Tesla's Model Y is killing it, but startups like Rivian and Lucid are making waves too. Charging infrastructure's growing, prices are dropping, and even legacy players like Ford and Hyundai are going all-in. Gas stations might be the next Blockbuster.



TESLA

By the end of 2022, over 100 million images were generated using AI tools like DALL-E 2 and Midjourney — that's more digital art created in one year than in all of human history combined.

ChatGPT breaks the internet!



In November 2022, OpenAI released ChatGPT — and everything changed. Built on the powerful GPT-3.5 language model, it allowed anyone with internet access to talk to an AI that could write poems, solve coding problems, draft emails, and even pass exams.

Within five days, it crossed a million users. Classrooms were flipped,

with students using it to write essays and solve math problems. Some medical students were even caught using it during online exams. It was wild. Teachers panicked, coders cheered, and productivity tools everywhere scrambled to catch up.

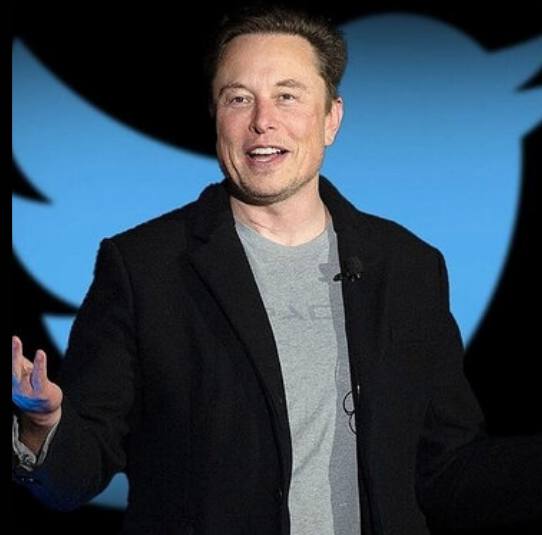
But beyond the hype, something bigger happened: AI became mainstream. No longer locked in labs or tech demos, ChatGPT showed what accessible intelligence could do — and it kicked off an arms race between every major tech company. Google, Microsoft, Meta — all pivoted hard toward generative AI.

“Let that sink in!” Elon Musk Buys Twitter

\$44 billion. That’s how much Elon Musk paid to buy Twitter in October 2022. What followed was... carnage. He walked into HQ carrying a literal sink (“let that sink in”), fired the CEO and most of the exec team within days, and started changing things at breakneck speed.

Verification badges? Pay for them. Content moderation? Basically a free-for-all. Employees?

More than half were laid off — including entire teams overnight. Twitter became a live experiment for Elon’s ideology: maximum freedom, minimum rules.



FTX Goes Boom — The Crypto Crash of the Year



Crypto in 2022 was a mess — and no story was bigger than the collapse of FTX. What was once one of the biggest and “safest” crypto exchanges turned out to be built on lies, bad accounting, and vibes.

FTX founder Sam Bankman-Fried (SBF), once hailed as crypto’s genius golden boy, was arrested after it was

revealed he’d used billions in customer funds for personal bets and shady dealings. The platform went from global empire to bankruptcy in under a week.



DALL·E 2 and the Rise of AI Art

You type a sentence. It draws a picture. That’s what tools like DALL·E 2, Midjourney, and Stable Diffusion brought to life in 2022. From surreal dreamscapes to photorealistic portraits, these text-to-image generators took over the internet — and triggered a creative revolution.

Artists, designers, and even casual users began using AI to brainstorm, visualize, and create at lightning speed. Memes, concept art, and brand designs exploded out of these tools



For the first time, people without artistic skills could generate stunning visuals just by describing them. But not everyone celebrated. Many artists saw AI-generated work being sold or exhibited without credit. Some accused these models of “stealing styles” since they were trained on public datasets.

NSS: HELPING HANDS

Empowering youth through service, compassion, and action.

SREYAS INSTITUTE OF ENGINEERING AND TECHNOLOGY IS NOT ONLY A HUB FOR INNOVATION AND ACADEMIC EXCELLENCE BUT ALSO A STRONGHOLD OF SOCIAL CONSCIOUSNESS. BEYOND CLASSROOMS AND CODE, THE STUDENTS HERE EMBRACE A DEEPER RESPONSIBILITY — TO GIVE BACK TO SOCIETY THROUGH MEANINGFUL ACTION. THEIR INVOLVEMENT IN THE NATIONAL SERVICE SCHEME (NSS) REFLECTS A CULTURE WHERE LEADERSHIP IS MEASURED NOT JUST BY ACHIEVEMENTS, BUT BY SERVICE.



THE NSS CELL AT SREYAS EMPOWERS STUDENTS TO ENGAGE WITH REAL-WORLD CHALLENGES, TRANSFORMING EMPATHY INTO IMPACT. WHETHER IT'S CONDUCTING AWARENESS DRIVES, TEACHING UNDERPRIVILEGED CHILDREN, ORGANIZING BLOOD DONATION CAMPS, OR PARTICIPATING IN ENVIRONMENTAL CAMPAIGNS — EACH INITIATIVE IS LED BY PASSIONATE STUDENT VOLUNTEERS COMMITTED TO MAKING A DIFFERENCE.



WHAT SETS THESE VOLUNTEERS APART IS THEIR ABILITY TO BLEND TECHNICAL KNOWLEDGE WITH SOCIAL AWARENESS. AS BUDDING ENGINEERS AND PROBLEM-SOLVERS, THEY BRING CREATIVITY, DISCIPLINE, AND DIGITAL INSIGHT INTO COMMUNITY SERVICE. THEIR EFFORTS NOT ONLY UPLIFT LIVES BUT ALSO DEMONSTRATE HOW TECHNOLOGY AND HUMANITY CAN GO HAND IN HAND FOR A BETTER FUTURE.

NSS EVENTS



Blood Donation Camp

The NSS Cell of SIET, in collaboration with Red Cross Society, organized a blood donation camp on 13th November 2021. Over 100 students and 5 faculty members participated. The event fostered awareness about the importance of donating blood and saving lives.

COVID Awareness Campaign at SIET

On 1st December 2021, the SIET NSS Cell, with Samskruthi Foundation, organized a COVID awareness campaign on campus. To prevent crowding, NSS volunteers visited classrooms to explain virus transmission and the importance of vaccination. The campaign supported SIET's vaccination drive and reached 450 students.



Fit India Freedom Run 2.0

On Gandhi Jayanti, 24 NSS volunteers from Sreyas took part in the Fit India Freedom Run 2.0 at Shilparamam. Organized by NYKS and JNTUH NSS Cell, the event promoted fitness, unity, and a healthy lifestyle among youth.

Traffic Rules Awareness Campaign

NSS volunteers at SIET, in collaboration with Samskruthi Foundation, organized a traffic safety campaign as part of the "Do Good – Be Good" initiative. The event focused on promoting helmet use, avoiding triple riding, and following basic road rules. Volunteers and faculty encouraged students to take a pledge for responsible commuting and road safety awareness.

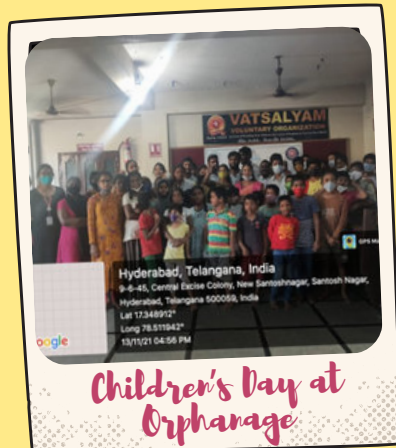




LEARNING THROUGH SERVICE

Spreading Smiles at Vatsalyam

On 13th November 2021, NSS volunteers from SIET visited Vatsalyam Orphanage to celebrate Children's Day. With a team of 15 students and their Program Officer, they donated meals and organized cultural activities to bring joy and warmth to the children. The visit reflected the spirit of service through compassion and connection.



Children's Day at Orphanage



Bathukamma Celebration

Tradition with Togetherness

On 7th October 2021, SIET NSS Cell organized a colorful Bathukamma celebration on campus. Over 100 students and 20 faculty members took part in honoring Telangana's cultural heritage with traditional songs, floral arrangements, and group performances. The celebration beautifully blended tradition with togetherness.

What NSS Means to Us

"NSS gave me the confidence to lead and the heart to serve."

— SAKINALA LALITH, CSE (AI&ML)

"Through NSS, I didn't just give back — I grew as a person."

— G VISHAL, ECE



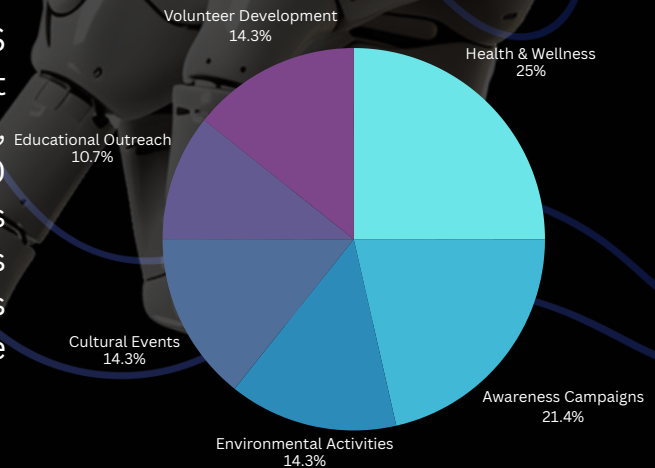
Voices of Our Volunteers

YEAR IN NUMBERS

NSS 2022–23

Our Work in Numbers

Throughout the academic year 2021–22, our NSS volunteers engaged in meaningful actions that spanned health awareness, environmental drives, education, and cultural service. With over 320 students participating in 28 events, our efforts reached schools, villages, and communities across Telangana. The chart below captures this journey – each slice represents the impact we made together, one initiative at a time.



Key Initiatives

Date	Event Name	Students	Faculty
Nov 13, 2021	Blood Donation Drive	100	5
Aug 1, 2022	Swasta Bacha Spardha	7	1
Jan 12, 2021	COVID Awareness at SIET	450	1
Nov 14, 2021	Children's Day – Orphanage Visit	15	2
Jul 10, 2021	Bathukamma Celebrations	100	50
Feb 10, 2021	Fit India Run	24	1

THESE KEY EVENTS HIGHLIGHT OUR VOLUNTEERS' DEDICATION THROUGHOUT THE YEAR. EACH INITIATIVE REFLECTS A STEP TOWARD POSITIVE CHANGE IN THE COMMUNITY.

Women's Day



ANNUAL DAY



GRADUATION

Cricket
(Girls Team)



ON DAY 2



Throw Ball
(Girls Team)



CSE (AI&ML) Department: Where Code Meets the Future

This Season's Highlights:

Empowering Innovation: Dive into the captivating recap of our workshops with the IEEE Sreyas Student Branch, where you unlocked the secrets of AI & ML.

Celebrating Excellence: Witness the remarkable achievements of our students and department, from hackathon triumphs to groundbreaking research.

A Season of Inspiration: Relive the unforgettable moments of the semester, a journey filled with learning, collaboration, and pushing the boundaries of AI.

Stay Connected, Stay Inspired

Follow us on social media for the latest news and updates
<https://sreyas.ac.in/aiml/> Join our vibrant community and connect with fellow AI enthusiasts

The future of AI is being built here. Are you ready to be a part of it?

Contact us:

<https://sreyas.ac.in/aiml/>



SCAN ME