Sri
SAI RAM
ENGINEERING COLLEGE

ARTIFICIAL INTELLIGENCE

AND DATA SCIENCE

NEWSLETTER

December 2024, Volume 3, Issue 12

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Vision/Mission of College

Vision

To emerge as a "Centre for excellence" offering Technical Education and Research Opportunities of very high standards to students, develop the total personality of the individual, and in still high levels of discipline and strive to set global standards, making our students technologically superior and ethically strong, who in turn shall contribute to the advancement of society and human kind.

Mission

We dedicate and commit ourselves to achieve, sustain and foster unmatched excellence in Technical Education. To this end, we will pursue continuous development of infrastructure and enhance state-of-the art equipment to provide our students a technologically up-to date and intellectually inspiring environment of learning, research, creativity, innovation and professional activity and inculcate in them ethical and moral values.

Educational Organization Management System (EOMS) Policy

We at Sri Sai Ram Engineering College are committed to empower our students not only to excel academically but also imbibe essential values, enabling them to become exemplary global citizens. We build a better nation by fostering excellence and innovative practices in Engineering, Technology and Management Education. We are dedicated to consistently enhancing our systems, infrastructure and services to meet the needs and expectations of all our stakeholders for sustainable growth.

<u>Vision/Mission of Department</u>

Vision

      To emerge as a "Centre of Excellence in the field of Artificial Intelligence and Data Science", The Department is committed to inculcate discipline, offering best Technical Education and Research Opportunities and ethically strong to meet the global challenges, who in turn shall contribute to the advancement and welfare of the society.

Mission

- To produce students with a sound understanding of the fundamentals of the theory and practice of Artificial Intelligence, Machine learning and Data Science.
- To enable students to become leaders in the Industry and Academia Nationally as well as internationally.
- To meet the pressing demands of the nation in the areas of Artificial Intelligence and Data Science.

Epitome of Our Mission

The Department of Artificial Intelligence and Data Science emerged in the year 2020 in Sairam Institutions with the intake of exiguous students. It has now evolved quintessentially with an admirable admission of about 60 aspiring students in 2020, 120 in 2021, 180 in 2022 and gradually increasing each year, join in the hands with a dedicated team of erudite faculty.

Team Smart Smurfs 561 Shines at SIH 2024

Team Smart Smurfs 561, hailing from the AI & DS department of Sri Sairam Engineering College, achieved a remarkable feat by winning first prize at Smart India Hackathon (SIH) 2024. The event was held at G. H. Raisoni College of Engineering, Nagpur, Maharashtra. This talented team,

led by Harini V as the team leader, comprised dynamic members: Bramarambika P, Krithikragav V, Ratnesh H S, Mohamed Suhail Y, and Sakthisree K.

The team clinched the top spot and a grand cash prize of ₹1,00,000 for their innovative solution under the Problem Statement Code SIH1779. The title of their project, "Voice-controlled Gaming Tools for Enhanced Learning in Skill Ecosystem," aimed to revolutionize skill development by integrating interactive, voice-enabled gaming tools. Their project is a pioneering step toward leveraging artificial intelligence and voice recognition to enhance engagement and learning efficiency in skill-based ecosystems.

The competition at SIH 2024 witnessed participation from top institutions across India, showcasing cutting-edge solutions to real-world

problems. Team Smart Smurfs stood out with their unique approach, combining technical excellence and creative problem-solving. Their solution was particularly lauded for its potential impact on making learning accessible, immersive, and efficient.

This victory highlights the team's hard work, dedication, and innovative mindset, as well as the strong support from Sri Sairam Engineering College, known for fostering excellence in its students. The achievement not only brought pride to their institution but also demonstrated the transformative power of technology in education and skill development.

The success of Team Smart Smurfs 561 serves as an inspiration for aspiring innovators and a testament to the potential of AI-driven solutions to create a meaningful impact. With such milestones, they continue to pave the way for future advancements in the tech-driven skill development ecosystem.

Recognition of Excellence: Esther C Awarded NPTEL Discipline Star (Jul-Dec 2024)

Esther C, from the Department of Artificial Intelligence and Data Science, has achieved a prestigious milestone by being recognized as an NPTEL Discipline Star for the July–December 2024 session. This award, presented by the National Programme on Technology Enhanced Learning (NPTEL) in collaboration with SWAYAM, acknowledges her exceptional commitment, dedication, and consistent performance in online learning across multiple courses in the Artificial Intelligence and Data Science discipline.

The NPTEL Discipline Star recognition is not merely a certificate; it represents an individual's perseverance, passion for knowledge, and ability to excel in a demanding academic environment. To earn this honor, candidates must complete more than 50 weeks of learning in courses from the same discipline, with a final score of 55 or above in each subject. Esther's achievement demonstrates her strong academic foundation, technical expertise, and determination to continually upskill herself in the ever-evolving field of technology.

Under the esteemed guidance of Prof. Andrew Thangaraj, Chair of the Centre for Outreach and Digital Education at IIT Madras, and Prof. Vignesh Muthuvijayan, NPTEL Coordinator at IIT Madras, the certification program ensures rigorous assessment standards and high-

quality content delivery. Esther's success reflects her ability to effectively balance academic rigor with the self-discipline required for online learning platforms like NPTEL.

NPTEL, a joint initiative by IITs and IISc, has been instrumental in democratizing education by providing free online courses in engineering, science, and humanities disciplines. The NPTEL Discipline Star initiative further motivates learners to specialize deeply in their chosen fields and apply their knowledge practically in solving real-world problems.

Esther's achievement serves as an inspiration for her peers and aspiring learners. It highlights not only her individual efforts but also the growing importance of platforms like SWAYAM-NPTEL in enhancing technical skills and preparing students for industry challenges.

As technology continues to transform every aspect of society, individuals like Esther stand as role models, showcasing how dedication and commitment to continuous learning can open doors to greater opportunities and recognition. Her accomplishment is not just a personal triumph but also a proud moment for her department and institution, symbolizing the spirit of excellence and lifelong learning.

Participation in Faculty Industrial Training & Internship on AR & VR by C. Esther

C. Esther, from the Department of Artificial Intelligence and Data Science at Sri Sairam Engineering College, recently participated in a Faculty Industrial Training & Internship on Augmented Reality (AR) and Virtual Reality (VR) with an emphasis on Unity Engine. This program was conducted by TANSAM from December 2, 2024, to December 6, 2024.

The training aimed to equip participants with advanced skills in AR and VR technologies, focusing on Unity Engine, one of the most powerful and widely used platforms for developing immersive experiences. Unity Engine plays a crucial role in creating real-time 3D applications across industries, including education, healthcare, gaming, and industrial simulations. Esther's participation in this training underscores her dedication to staying updated with emerging technologies and her eagerness to bridge the gap between theoretical knowledge and practical implementation.

The five-day intensive program covered key aspects of AR and VR development, including interactive simulations, real-time rendering, and optimization techniques for creating immersive environments. Participants engaged in hands-on workshops, live demonstrations, and collaborative

projects to reinforce their learning. This immersive approach ensured that the attendees gained practical exposure to building AR and VR applications using Unity.

Faculty industrial training programs like this are designed to foster innovation, creativity, and technical expertise among educators and professionals. They aim to prepare participants for upcoming technological advancements and equip them to pass on their knowledge effectively to students. Esther's participation highlights her proactive approach to adopting modern tools and techniques, contributing to her professional growth as well as enhancing the academic ecosystem of her institution.

The certification provided by TANSAM signifies her successful completion of the training and validates her competence in AR and VR technologies. This accomplishment not only adds value to her professional credentials but also enhances her ability to guide and mentor students in emerging technological domains.

Esther's participation in such programs sets a benchmark for her peers and reinforces the importance of continuous learning in a rapidly evolving technological landscape. Her commitment to personal and professional development serves as an inspiration for students and colleagues alike, showcasing the impact of dedication and innovation in shaping the future of education and technology.

Participation of Mrs. Esther C from AI & DS Department in Siemens Training by TANSAM

Mrs. Esther C, a faculty member from the Department of Artificial Intelligence and Data Science at Sri Sairam Engineering College, recently participated in an intensive training program conducted by Siemens in collaboration with TANSAM. The event was held at the Siemens Centre of Excellence located at Ramanujan IT City SEZ, Chennai. This training aimed to equip participants with advanced technical skills and industry-oriented knowledge in emerging technologies, preparing them to bridge the gap between academic learning and industrial applications.

The program was designed to cover key aspects of industrial automation, digital transformation, and smart manufacturing. Participants had the opportunity to engage in hands-on workshops, interactive sessions, and real-time simulations using cutting-edge Siemens technologies. The training emphasized practical learning, ensuring that participants could directly apply their knowledge to real-world scenarios.

Mrs. Esther actively participated in various modules that focused on advanced tools, innovative strategies, and modern industrial practices. The exposure to Siemens' state-of-the-art technologies and solutions provided valuable insights into enhancing efficiency and productivity in technology-driven environments. Her involvement in this program not only reflects her commitment to continuous professional development but also highlights her dedication to bringing updated knowledge into the academic curriculum.

Faculty training programs like these are instrumental in empowering educators with industry-relevant expertise, enabling them to deliver high-quality education to students. Mrs. Esther's participation serves as a significant step towards enriching the teaching-learning experience in the Department of Artificial Intelligence and Data Science. Her engagement in this initiative ensures that students under her guidance will benefit from her enhanced technical proficiency and real-world insights.

The Siemens training program by TANSAM also fostered collaboration and networking among professionals from various institutions, encouraging the exchange of ideas and best practices. Mrs. Esther's active participation in discussions and collaborative activities showcased her enthusiasm and willingness to contribute to collective learning.

Recognition for Academic Contribution: A Prestigious Honor

The 3rd IEEE International Conference on Interdisciplinary Approaches in Technology and Management for Social Innovation (IATMSI-2025), organized by the IEEE MP Section and

ABV-IIITM Gwalior, stands as a significant platform for advancing technological and managerial solutions aimed at social betterment. Scheduled to take place in Gwalior, India, from March 6–8, 2025, this conference brings together intellectuals, professionals, and scholars from diverse disciplines to share knowledge and foster innovation.

Dr. Swagata Sarkar, the Head of the Department of Artificial Intelligence and Data Science (AI & DS) at Sri Sai Ram Engineering College, has been honored with a Certificate of Appreciation for voluntarily contributing as a reviewer for the conference. By critically evaluating research papers, Dr. Sarkar has played a vital role in maintaining the conference's high academic standards and ensuring the dissemination of impactful research. The role of a reviewer is crucial in any academic event, as it requires a keen eye for detail, a strong grasp of subject matter, and an unwavering commitment to advancing the quality of scholarly work.

This recognition not only highlights Dr. Sarkar's expertise but also underscores the importance of academic collaborations in shaping

innovations for social good. Such contributions are pivotal in identifying and promoting research that addresses pressing societal challenges through interdisciplinary approaches.

The acknowledgment from the organizing committee, led by Dr. Pinku Ranjan (Organizing Chair), Prof. G. S. Tomar (General Chair), and Dr. Somesh Kumar (Conference Chair), reflects the collective gratitude for the tireless efforts of contributors like Dr. Sarkar. It inspires professionals and academics alike to engage in initiatives that foster the growth of knowledge and its application for societal transformation.

Dr. Swagata Sarkar's involvement exemplifies dedication to academic excellence and reaffirms the power of collaboration in driving meaningful innovation.

Recognition for Exemplifying TCS Values

Tata Consultancy Services (TCS) has always been a global leader in fostering excellence and building a work culture rooted in values such as respect, empathy, and teamwork. These principles are exemplified in the recognition of outstanding individuals who inspire their peers and uphold the company's ethical foundation.
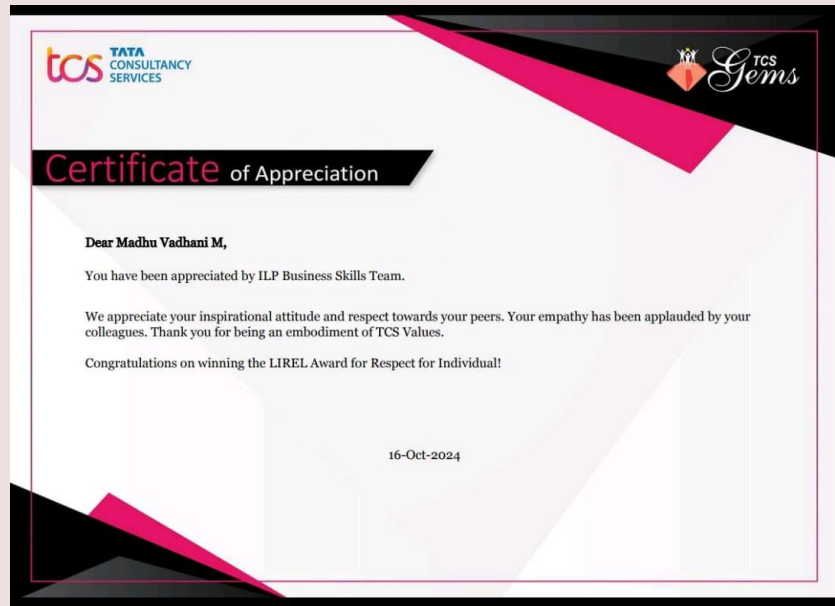
Madhu Vadhani M, an alumna of the Artificial Intelligence and Data Science (AI & DS) department at Sri Sairam Engineering College, has been honored by the ILP Business Skills Team at TCS with a Certificate of Appreciation for embodying these core values. This accolade is not just a token of recognition but a testament to her inspirational attitude, unwavering respect for peers, and deep sense of empathy. These qualities have not only earned admiration but have also contributed significantly to cultivating a positive and collaborative workplace environment.

The certificate also marks a significant achievement: winning the LIREL Award for Respect for Individual. This prestigious recognition underscores the essence of what makes TCS a thriving organization. The value of respecting individuals is at the heart of fostering creativity and collaboration, attributes that are crucial for innovation and growth in a globally competitive environment.

As a proud alumna of Sri Sairam Engineering College, Madhu Vadhani's accomplishments serve as a source of inspiration for current students. Her journey reflects the strong academic foundation and value system instilled by her alma mater, which continue to shape her professional success.

The appreciation expressed by the ILP Business Skills Team reflects the alignment between individual achievements and organizational values. Such recognitions inspire others to emulate these qualities, creating a ripple effect of positivity and excellence.

Madhu Vadhani's recognition is a shining example of how individuals can transform their work environment through humility, respect, and compassion. This accomplishment not only celebrates personal contributions but also reinforces the values that define TCS as a leader in corporate ethics and innovation.

Smart India Hackathon 2024: Innovation Meets Excellence at Sri Sairam Engineering College

Sri Sairam Engineering College, Chennai, proudly hosted the prestigious Smart India Hackathon 2024, a national platform for young innovators to solve real-world challenges through technology and creativity. The two-day event, held on December 11th and 12th, was a confluence of talent, ideas, and vision, with participants, industry leaders, and policymakers coming together to celebrate innovation.

The inaugural day witnessed the presence of Professor V. Kamakoti, Director of IIT Madras, as the chief guest. In his keynote address, Professor Kamakoti highlighted the transformative potential of technology in addressing societal challenges and encouraged participants to think beyond conventional boundaries. His inspiring words set the tone for an event aimed at fostering technological ingenuity and interdisciplinary collaboration.

On December 12th, the event was graced by Dr. Palanivel Thiagarajan, Honorable Minister for Information Technology, Government of Tamil Nadu. In his thought-provoking speech, Dr. Thiagarajan emphasized the critical role of platforms like the Smart India Hackathon in shaping India's future by nurturing problem-solvers and innovators. He also shed light on

the state's ambitious plans to establish Tamil Nadu as a global technology hub, motivating students to align their innovations with this vision.

The hackathon featured challenging problem statements from government bodies, NGOs, and industries, pushing participants to develop creative solutions within a tight 36-hour timeframe. Teams showcased their technical expertise and innovative thinking, presenting ideas in areas such as artificial intelligence, sustainability, and digital transformation.

The event culminated in an awards ceremony, recognizing the most impactful and innovative solutions. Winning teams were lauded for their ingenuity, teamwork, and commitment to excellence, embodying the hackathon's spirit of innovation.

Sri Sairam Engineering College's successful organization of the Smart India Hackathon 2024 reaffirms its commitment to fostering talent and driving technological advancement. This milestone event stands as a testament to the college's dedication to empowering the next generation of innovators and contributing to the nation's growth.

Malaysian Delegation Visits AI-DS Labs at Sri Sairam Engineering College

Sri Sairam Engineering College, Chennai, proudly hosted a distinguished Malaysian delegation at its state-of-the-art Artificial Intelligence and Data Science (AI-DS) laboratories. The visit, aimed at fostering collaboration and exploring innovative advancements in AI and data science, marked a significant milestone in the institution's global outreach efforts.

The delegation, comprising senior academicians, industry experts, and policymakers from Malaysia, expressed keen interest in the cutting-edge facilities and ongoing research projects at the AI-DS labs. During their tour, they engaged with students and faculty, gaining insights into groundbreaking projects that leverage AI for real-world applications such as healthcare, agriculture, and smart cities.

The visitors were particularly impressed with the innovative spirit and technical expertise demonstrated by the students. Projects on predictive analytics, natural language processing, and computer vision were showcased, highlighting the department's emphasis on solving real-world challenges through technology.

In a brief address, the delegation lauded the college's commitment to fostering a culture of innovation and research. They emphasized the importance of international collaborations in accelerating technological advancements and expressed their desire to explore joint research initiatives and student exchange programs.

Dr. Swagata Sarkar, Head of the Department of Artificial Intelligence and Data Science, welcomed the delegation and shared the department's vision of creating a global ecosystem for AI education and innovation. "This visit underscores the potential of knowledge-sharing and collaborative efforts in driving impactful solutions. We are thrilled to engage with our Malaysian counterparts and look forward to fruitful partnerships," she said.

The event concluded with a vibrant exchange of ideas on the future of AI-driven technologies and their role in shaping a sustainable and inclusive world. The visit by the Malaysian delegation stands as a testament to Sri Sairam Engineering College's commitment to excellence and its growing reputation as a hub for innovation and global collaboration.

IEEE ICCCSMD 2024: Recognizing Dr. Swagata Sarkar for Her Contribution as a Reviewer

The IEEE Technically Co-sponsored International Conference on Communication, Computing, Smart Materials & Devices (ICCCSMD 2024) conducted by the College

of Engineering, Anna University, was a significant event that brought together experts, researchers, and academicians from various fields to discuss advancements in communication, computing, and smart materials. One of the highlights of this esteemed conference was the recognition of Dr. Swagata Sarkar, the Head of the Department at Sri Sairam Engineering College, for her remarkable contribution as a reviewer.

Dr. Sarkar's role as a reviewer was instrumental in the rigorous evaluation of research papers presented at the conference. Her insights, expertise, and meticulous attention to detail played a key part in maintaining the high academic standards of the conference. The IEEE ICCCSMD 2024, known for its high-quality submissions, benefited greatly from Dr. Sarkar's thoughtful critiques and constructive feedback, ensuring that only the most impactful and innovative research was showcased.

Her recognition as a reviewer highlights her commitment to the advancement of knowledge and research in the fields of communication, computing, and smart materials. Dr. Sarkar's professional achievements continue to inspire her colleagues and students alike, motivating them to

strive for excellence in their respective fields. As an academic leader, she has been at the forefront of nurturing a culture of intellectual rigor and academic curiosity within the department.

The conference itself proved to be an excellent platform for networking, collaboration, and knowledge-sharing, with attendees discussing the latest trends and emerging technologies in the fields of communication and smart materials. The technical co-sponsorship by IEEE added credibility and prestige to the event, which is expected to have a lasting impact on the future of research and development in these areas.

Dr. Sarkar's recognition as a reviewer at ICCCSMD 2024 is a testament to her dedication to fostering innovation and excellence in academia, and her contribution serves as an example of the kind of leadership that drives the progress of research and technology.

Driving Innovation: Ms. Esther C. of AI&DS Department Visits TANSAM

In a remarkable stride toward academic-industry collaboration, Ms. Esther C., an esteemed faculty member of the Artificial Intelligence and Data Science (AI&DS) Department at Sri Sairam Engineering College, embarked on an insightful visit to the Tamil Nadu Smart and Advanced Manufacturing Centre (TANSAM).

TANSAM, a hub of innovation in the state, is a cutting-edge facility dedicated to revolutionizing the manufacturing sector through advanced technologies like IoT, artificial intelligence, and Industry 4.0 principles. The center is at the forefront of transforming traditional manufacturing into a smart, automated, and data-driven domain, making it a significant destination for researchers and educators alike.

During her visit, Ms. Esther had the opportunity to delve into the intricacies of smart manufacturing processes, gaining firsthand experience of how advanced technologies are reshaping the industry. She explored areas such as predictive maintenance, real-time monitoring, digital twin applications, and intelligent supply chain systems—all powered by data science and AI-driven analytics.

This visit was more than just an observational exercise. It marked a meaningful exchange of ideas between academia and industry. Ms. Esther engaged with TANSAM experts, discussing the role of AI and data science in pushing the boundaries of manufacturing capabilities. Such insights are poised to enhance the AI&DS curriculum, ensuring that students gain exposure to the latest advancements and are equipped to meet industry demands.

Dr. Swagata Sarkar, Head of the AI&DS Department, emphasized the significance of such initiatives. "Visits like these are a testament to our department's commitment to fostering innovation and staying aligned with global technological trends. Ms. Esther's experience will inspire our students and open doors to exciting research opportunities," she said.

The visit also paves the way for potential collaborations between Sri Sairam Engineering College and TANSAM, offering students opportunities for internships, projects, and hands-on exposure to real-world challenges in advanced manufacturing.

Ms. Esther's visit reflects the department's proactive approach in equipping students with skills that align with the demands of a tech-driven future, cementing its reputation as a leader in AI and data science education.

"Think, Create, Engineer": Pradeep of AI&DS Joins PALS Workshop at IIT Madras

The prestigious PALS Residential Students' Workshop (RSW) Batch 1, held at IIT Madras from November 28-30, 2024, proved to be a transformative experience for participants. Under the theme "Think, Create, Engineer," the event attracted 128 students and 28 faculty members from 27 partner institutions across Tamil Nadu, Andhra Pradesh, Telangana, and Karnataka.

Representing Sri Sairam Engineering College's Artificial Intelligence and Data Science (AI&DS) Department, third-year student Pradeep had the honor of being part of this prestigious event. His participation reflects the department's commitment to fostering innovation and providing students with opportunities to engage with cutting-edge ideas and practices.

The three-day workshop was designed to ignite creativity and engineering prowess among students, with a focus on interdisciplinary learning and real-world problem-solving. Through interactive sessions,

PALS Residential Students' Workshop
A Transformative Experience! ✦

NOVEMBER 28-30, 2024 | IIT MADRAS

THINK CREATE ENGINEER

The PALS Residential Students' Workshop (RSW) Batch 1, held from November 28-30, 2024, at the prestigious IIT Madras campus, brought together 128 students and 28 faculty members from 27 partner institutions across Tamil Nadu, Andhra Pradesh, Telangana, and Karnataka. This year's workshop, themed "Think, Create, Engineer," was an inspiring three day event that pushed the boundaries of creativity and innovation among participants.

WORKSHOP HIGHLIGHTS

Record Participation 156 delegates attended, marking a milestone in PALS workshops.

New Initiative Research to Startup: Focused sessions to bridge the gap between academic research and entrepreneurial ventures.

Interactive Innovation Visits Delegates explored the Center for Innovation (CFI), the Sudha Deshpande Innovation Center, and the Nirmaan pre-incubator space.

Think Like an Engineer An engaging and impactful session to inspire students to think like an Engineer.

Evening Enrichment Music Appreciation and Happiness workshop eased the mood of the students from the tightly packed day sessions.

Exclusive Faculty Engagement Special interventions, including a visit to IIT Madras Research Park.

Despite weather challenges, the workshop maintained its momentum, with the final day's activities being planned to be conducted online.

TRANSFORMATIVE IMPACT

Inspiring Innovation
Encouraging students to think pragmatically and with empathy

Fostering Collaboration
Creating an environment of shared learning and interdisciplinary teamwork.

Empowering Faculty
Connecting educators with cutting-edge research and entrepreneurial ecosystems.

What's Next?
The next batch of PALS Residential Students' Workshop is set to build on this success, continuing to ignite minds and fuel dreams. Stay tuned for updates!

hands-on activities, and expert-led discussions, participants explored topics like design thinking, rapid prototyping, and emerging technological trends.

Pradeep shared his insights from the workshop, expressing how the experience broadened his understanding of collaborative engineering and creative thinking. "It was an incredible opportunity to work with peers from diverse backgrounds and apply theoretical concepts to practical challenges. The exposure to the resources and environment at IIT Madras was truly inspiring," he said.

The workshop also featured keynote sessions by industry leaders and IIT Madras faculty, who emphasized the importance of critical thinking, innovation, and sustainability in engineering solutions. Participants collaborated in teams to design and present projects, showcasing their ingenuity and problem-solving abilities.

Dr. Swagata Sarkar, HOD of the AI&DS Department, congratulated Pradeep on his participation. Being a part of such a prestigious workshop demonstrates the caliber of our students and their drive to excel. We are proud of Pradeep's involvement and confident that this experience will positively impact his academic and professional journey.

The PALS workshop continues to serve as a platform for young engineers to explore their potential, driving them to "Think, Create, Engineer," and make meaningful contributions to society.

Celebrating Excellence: Sairam Engineering College Students Shine in Cognizant Placements

Sairam Engineering College proudly announces the remarkable achievements of its students in the recent placement drive, where they secured prestigious positions at Cognizant, a global leader in technology and consulting services. This success underscores the institution's commitment to academic excellence, comprehensive training, and preparing students for thriving careers in the industry.

The standout achievers include Kamaleshwar V and Mathiesh M, who secured roles as GenC associates with an impressive package of 4 LPA each. Joining the elite GenC Next program, Sanjaie Shelton J and Roshiya Parveen M R achieved exceptional packages of 6.75 LPA each, showcasing their technical expertise, problem-solving skills, and readiness to excel in advanced roles. Their achievements reflect not only their hard work and dedication but also the robust training and mentoring provided by the college through its flagship Sairam Training and Entrepreneurship Placements (STEP) program.

The STEP program has been instrumental in bridging the gap between academia and industry, offering students a platform to hone their technical,

analytical, and interpersonal skills. Through rigorous training sessions, hands-on workshops, and mock interviews, the program ensures students are equipped with the confidence and expertise needed to excel in competitive recruitment processes. Its focus on fostering innovation, collaboration, and a problem-solving mindset has consistently enabled students to secure positions in top-tier companies.

The management, faculty, and placement team extend their heartfelt congratulations to Kamaleshwar V, Sanjaie Shelton J, Mathiesh M, and Roshiya Parveen M R for their outstanding accomplishments. Their success is a source of immense pride for the college and serves as an inspiration to their peers, highlighting the opportunities available through determination and focused preparation.

Sairam Engineering College, an autonomous institution located in West Tambaram, Chennai, continues to uphold its legacy of excellence in education and career development. By fostering a culture of innovation and skill enhancement, the institution reaffirms its commitment to shaping future-ready professionals who can excel in the dynamic global job market.

Ms. Gomathy G Honored as Best Researcher of the Month – November 2024

The Department of Artificial Intelligence and Data Science at Sri Sairam Engineering College proudly celebrates the remarkable achievement of Ms. Gomathy G, Assistant Professor, who has been recognized as the Best Researcher of the Month for November 2024.

Ms. Gomathy's dedication to research and innovation is exemplified by her outstanding contributions in the field of intellectual property. She has successfully published a total of eight patents, with two of these groundbreaking patents published in November alone. Her work reflects a deep commitment to advancing knowledge and fostering technological innovation, aligning perfectly with the department's mission of promoting cutting-edge research in artificial intelligence and data science.

This recognition not only highlights Ms. Gomathy's individual brilliance but also underscores the supportive research culture within the department, which encourages faculty members to push the boundaries of innovation. The department, under the guidance of Dr. Swagata Sarkar, continues to provide a platform for researchers to thrive and contribute meaningfully to society through impactful discoveries.

The management, faculty, and students of Sri Sairam Engineering College extend their heartfelt congratulations to Ms. Gomathy G for this well-deserved honor. Her achievements serve as an inspiration for both colleagues and students, setting a benchmark for academic and research excellence.

The college remains steadfast in its commitment to nurturing talent and fostering an environment that drives innovation, empowering its faculty and students to make significant contributions to the global academic and industrial landscape.

Sairam Institutions Hosts Grand Finale of Smart India Hackathon 2024: Software Edition

The inaugural ceremony of the Smart India Hackathon (SIH) 2024: Software Edition Grand Finale was a resounding success, marking a significant milestone for Sairam Institutions as the proud Nodal Center for this prestigious event. Held on December 11 and 12, 2024, the finale witnessed the convergence of India's brightest innovators, showcasing their talent and ingenuity to address real-world challenges.

The event, supported by the Government of the National Capital Territory of Delhi, the Family Welfare Department, and the Ministry of Electronics and Information Technology, provided a platform for young minds to collaborate on transformative solutions to pressing societal issues. Teams from across the country competed in this two-day hackathon, presenting their innovative ideas and projects to a panel of experts.

In preparation for the Grand Finale, Sairam Institutions organized an awareness session at the Sairam Incubation Center. This session aimed to familiarize participants with the hackathon's objectives, rules, and evaluation criteria while highlighting the opportunities it offers to contribute to nation-building through innovation. The Incubation Center, known for fostering entrepreneurship and technological advancements,

played a pivotal role in equipping participants with the insights and confidence needed to excel in the competition.

The management, faculty, and student volunteers of Sairam Institutions worked tirelessly to ensure the event's seamless execution. Their dedication and meticulous planning were instrumental in creating a platform that celebrated creativity, teamwork, and problem-solving skills.

The Smart India Hackathon 2024 at Sairam Institutions not only reinforced the institution's commitment to nurturing innovation but also demonstrated its pivotal role in shaping future leaders and thinkers. By hosting such a significant national event, Sairam Institutions has further cemented its position as a hub for excellence in education and innovation.

Quintessence Nexus 2.0: A Professional IEEE SPAx Event

The Department of Artificial Intelligence and Data Science, in collaboration with the IEEE Computational Intelligence Society, proudly organized the IEEE SPAx-sponsored professional event Quintessence Nexus 2.0 on December 26, 2024. This prestigious event brought together academia and industry professionals, creating a dynamic platform for knowledge exchange and innovation. The event was graced by distinguished resource persons, including Dr. A. Abirami, Assistant Professor at SRM Easwari Engineering College; Dr. Brindha Saminathan, IEEE SB Counselor at Sri Sairam Engineering College; Dr. Soma Prathibha, IEEE CS-SBC Chapter Advisor; and Mr. S. Naresh Kumar, Assistant Professor at St. Joseph's College of Engineering. These experts shared their insights and expertise, inspiring participants to explore the evolving domains of artificial intelligence, computational intelligence, and data science.

Quintessence Nexus 2.0 offered a variety of intellectually stimulating activities, each meticulously designed to engage participants and enhance their skills. Code Quest, a coding competition, tested the problem-solving

abilities of participants, challenging them to devise innovative solutions to complex problems. The Mock Parliament simulated real-world debates, fostering critical thinking and collaborative decision-making. CPL (Collaborative Programming League) encouraged teamwork and programming excellence, while Revive and Thrive focused on resilience and adaptive strategies in professional contexts. These events not only honed the technical and analytical skills of the participants but also emphasized the importance of communication, leadership, and adaptability in a competitive environment.

The program's success lay in its ability to blend technical rigor with creative engagement, leaving attendees enriched and motivated. Quintessence Nexus 2.0 served as a vibrant nexus of ideas, innovation, and professional growth. The event reinforced the importance of collaboration among students, educators, and professionals to address challenges and opportunities in the rapidly evolving landscape of technology and artificial intelligence. By fostering a spirit of learning and innovation, the event set a benchmark for excellence in professional and academic gatherings under the IEEE SPAx sponsorship.

NSERB DIA: A National Seminar on "The Quantum Frontier: Preparing for the Next Computational Revolution"

The Department of Computer Science and Engineering at Rajalakshmi Engineering College, Chennai, hosted a prestigious national seminar titled "The Quantum Frontier: Preparing for the Next Computational Revolution" on December 13th and 14th, 2024. The event was sponsored by the Anasandhan National Research Foundation (ANRF) under the Science and Engineering Research Board (SERB), emphasizing its importance and academic relevance.

A highlight of the seminar was the recognition of Dr. Swagata Sarkar, Professor and Head of the Department of Artificial Intelligence and Data Science at Sri Sairam Engineering College. Dr. Sarkar was presented with a commemorative plaque for her pivotal contributions to the seminar. Her thought-provoking sessions offered invaluable insights into quantum computing's transformative potential and its implications for the next generation of computational advancements.

The seminar gathered an eclectic mix of students, researchers, and academicians, fostering an environment for robust discussions and innovative thinking. It aimed to demystify quantum computing and shed

light on its diverse applications, including cryptography, optimization, and machine learning, while addressing the challenges of transitioning from classical to quantum paradigms.

Keynote addresses, including Dr. Sarkar's, delved into the theoretical foundations and practical challenges of quantum computing, highlighting emerging trends and breakthroughs. Interactive sessions and panel discussions further enhanced the learning experience, bridging the gap between research and application.

The event marked a collaborative milestone for Rajalakshmi Engineering College and Sri Sairam Engineering College, demonstrating their shared commitment to nurturing research and innovation in cutting-edge domains like artificial intelligence and quantum computing. The seminar also served as a platform to inspire young minds to contribute to India's technological and scientific advancement.

In conclusion, the National Seminar on "The Quantum Frontier: Preparing for the Next Computational Revolution" was a resounding success, enriching participants' understanding of quantum computing while setting the stage for future academic collaborations and breakthroughs. The recognition of Dr. Swagata Sarkar's expertise underscores her significant role in shaping the discourse on this critical subject.

Report on the Distinguished Lecture Program: Insights on Multifactorial Evolution – Towards Multitasking Optimization

The Department of Artificial Intelligence and Data Science, in collaboration with the IEEE Computational Intelligence Society, successfully organized a Distinguished Lecture Program titled "Insights on Multifactorial Evolution: Towards Multitasking Optimization" on 10th December 2024. The event, held in the esteemed presence of faculty, researchers, and students, featured a highly acclaimed speaker, Prof. Dr.

Ong Yew Soon, President's Chair Professor in Computer Science at the College of Computing & Data Science, Nanyang Technological University (NTU), Singapore.

Prof. Ong, a globally recognized academic and a Fellow of IEEE (FIEEE), brought his vast expertise to the discussion, captivating the audience with his in-depth presentation on multifactorial evolution. This cutting-edge concept, which seeks to address multiple optimization problems simultaneously using shared resources, was the centerpiece of his lecture. He elaborated on the underlying principles, methodologies, and the

groundbreaking potential of multitasking optimization in solving real-world computational challenges.

The session began with a formal welcome address by the event organizers, who emphasized the importance of fostering academic collaborations and exploring innovative research domains. Prof. Ong then took the stage, delivering an engaging talk that covered both the theoretical foundations and practical applications of multifactorial evolution. He highlighted its relevance in diverse areas such as artificial intelligence, machine learning, and engineering optimization.

The program witnessed active participation from the attendees, who posed insightful questions during the interactive session following the lecture. Prof. Ong's responses were not only thought-provoking but also underscored his deep understanding of the subject. His ability to simplify complex ideas and relate them to real-world scenarios was particularly appreciated by the audience.

The event concluded with a vote of thanks, expressing gratitude to Prof. Ong for his valuable insights and to the organizing teams for their efforts in making the lecture a grand success. The program served as a catalyst for knowledge sharing and inspired participants to explore novel research opportunities in the field of computational intelligence.

The Distinguished Lecture Program was a resounding success, leaving participants enriched with advanced knowledge and a deeper appreciation for the evolving landscape of optimization and artificial intelligence.

THANK YOU