ARTIFICIAL INTELLIGENCE

AND

DATA SCIENCE

NEWSLETTER

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EDITORIAL BOARD

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 instil 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 humankind.

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.

Quality Policy

We at Sri Sairam Engineering College are committed to build a better nation through Quality Education with team spirit. Out students are enabled to excel in all values of Life and become Good Citizens. We continually improve the System, Infrastructure and Services to satisfy the Students, Parents, Industry and Society.

VISION / MISSION OF DEPARTMENT

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 practise of Artificial Intelligence, Machine Learning and Data Science.
- To enable students to become leaders in the Industry and Academia Nationally as well as Internationally.
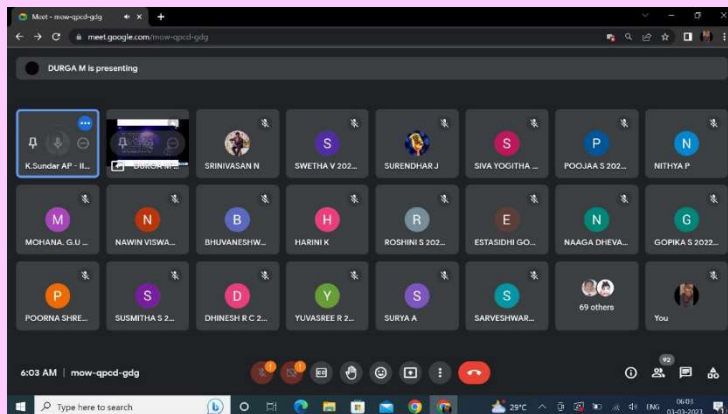- To meet the pressing demands of the nation in the areas of Artificial Intelligence and Data Science.

EPITOME OF OUR MISSION

The Department of Artificial Intelligence and Data Science emerged in the year 2020 in Sai Ram 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, joining hands with a dedicated team of erudite faculty.

RECENT TRENDS IN ARTIFICIAL INTELLIGENCE:

The Department of Artificial Intelligence and Data Science organized an expert talk on "RECENT TRENDS IN ARTIFICIAL INTELLIGENCE" on 03-03-2023 for all the students of the department. The welcome address was given by Preetha Lakshmi E. She introduced the speaker of the day, Mr.K.Sundar, Assistant Professor of Velammal Engineering College. He gave a brief talk about the Benefits of Artificial Intelligence and how it can be applied in multiple fields and he spoked about market
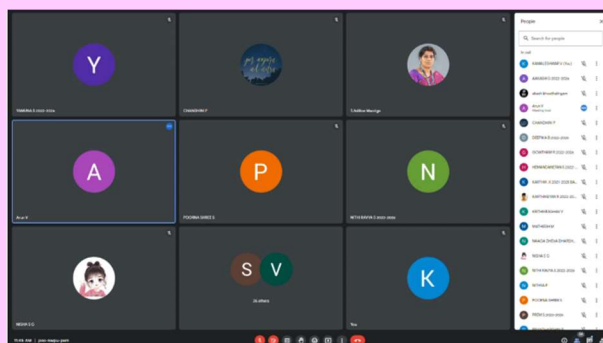

players like Apple, Tesla, Meta.

The session was wound up with the vote of thanks which was given by Preetha Lakshmi E, 2nd year AI-DS and the ended

the event successfully.

OPPORUNITIES IN ISTE:

On 4th March 2023, an event on "Opportunities in ISTE" was organized by the IT department of Sri Sairam Engineering College. The event was held from 11 am to 12 am, and the speaker for the event was Dr. G. Adiline Macriga, a professor from the IT department of Sri Sairam Engineering College. The purpose of the event was to create awareness about the opportunities available for students and professionals in ISTE.

Dr. G. Adiline Macriga, the keynote speaker for the event, began by explaining what ISTE is and its significance in the field of technology. She highlighted the role of ISTE in promoting the use of technology in education and emphasized the importance of being a member of ISTE.

Dr. Macriga went on to explain the various opportunities available.

PCB DESIGN:

On March 10 and 11, 2023, the Incubation Centre held an Awareness Workshop on PCB Design, exclusively for college students who were interested in gaining hands-on training and experience in the field of electronics. The workshop was designed to provide students with a comprehensive understanding of the basics of PCB design, including the various components of a PCB, their functions, and the software tools used in the design process. The workshop was highly interactive, with students getting the opportunity to design their own PCBs with the guidance and support of experienced professionals in the field of electronics.

The workshop started at 9:00 am on both days, with an introduction to the basics of PCB design. The organizers explained the various components of a PCB, their functions, and the software tools used in the design process. They also provided an overview of the different types of PCBs, such as single-layer, double-layer, and multi-layer PCBs.

The workshop was highly interactive and hands-on, with students getting the opportunity to design their own PCBs using the software tools provided by the organizers. The students were divided into small groups, and each group was assigned a mentor who provided guidance and support throughout the design process.

The mentors were experienced professionals in the field of electronics, and they were highly skilled in PCB design. They provided valuable insights and tips to the students, helping them to overcome any challenges they encountered during the design process. The students were highly engaged and enthusiastic, asking questions and seeking clarification whenever necessary.

The workshop also included a series of practical exercises, where the students got to apply their newly acquired knowledge and skills in real-life scenarios. The exercises were designed to simulate real-world situations, and they helped the students to understand the various factors that influence the design of a PCB, such as cost, size, and performance.

The workshop ended at 4:00 pm on both days, with the students presenting their completed designs to the mentors and their peers. The organizers congratulated the students on their hard work and dedication, and encouraged them to continue to pursue their interests in electronics and PCB design.

Overall, the Awareness Workshop on PCB Design was a huge success, with students gaining valuable hands-on training and experience in the field of electronics. The organizers were highly praised for their efforts in organizing such a well-planned and informative workshop, and many students expressed their interest in attending similar events in the future.

INDULGE IN SDG:

On 11th March 2023, a fun-oriented and informative event, "Indulge in SDG," was conducted by six students of AI&DS at Smart Class – II. The event aimed to promote sustainable development goals (SDGs) and increase awareness among the participants through various activities.

The event began with a welcome speech by the host, followed by an address by the Head of the Department, Swagatha Sarkar. She highlighted the importance of SDGs and encouraged the participants to indulge in the activities with enthusiasm and this event will be conducted every Saturdays

The first activity was "Chinese Whisper," where the participants formed a line, and a message was whispered to the first person, who passed it on to the next, and so on. The last person revealed the message, and the team with the correct message won.

The second activity was "Impromptu Speaking," where the participants had to speak on a topic given on the spot. The participants demonstrated their creativity and quick thinking skills in this activity.

The third activity was "Connections," where the participants had to connect two seemingly unrelated items and explain their connection. This activity helped the participants to think critically and creatively.

The fourth activity was "2 Truths and 1 Lie," where the participants had to say three statements about themselves, two of which were true and one was false. The other participants had to guess which statement was a lie.

The final activity was "Guess Who," where the participants had to guess the famous personalities from the clues given. This activity helped the participants to increase their knowledge of notable figures.

The winners were awarded a cash prize of rupees 500, and all the participants received participation certificates. The event was concluded with a vote of thanks by the host.

Overall, the "Indulge in SDG" event was a success, and it achieved its goal of promoting SDGs while providing a fun-filled and knowledgeable experience for the participants.

5 DAYS CERTIFICATION ON MANAGERIAL SKILLS FOR ENGINEERS:

The Department of Artificial Intelligence and Data Science organized a 5-Days Certification Course on Managerial Skills for all the students in various departments from 13.03.2023 to 17.03.2023, The meet started at 6.30p.m.

Mr. Muthamil Selvan was the coordinator of the event.

DAY 1

On the First Day of the Webinar, Somasundaraman from AI-DS Department gave the Welcome Address and welcomed the chief guest and the student participants.

A brief introduction of the chief guest, Fauziah Bibi Binti Abdul Aziz who is the CEO and Founder of Successful Management Consultancy and a certified trainer in HR Operations and Management was delivered. The speaker Mrs. Fauziah Bibi shared her insights on HR management. She further discussed various important topics like Best Human Resource Practices, Labor Laws Of India and Business Opportunities. She even taught the students about the Job Interview preparations and HR

Recruitment expectations. Somasundaraman concluded the event by delivering the vote of thanks.

The overall experience of the First Session was very Informative and Insightful and the Students learned a lot from the speaker.

DAY – 2

On the Second Day of the Webinar, Somasundaraman from AI–DS Department gave the Welcome Address and welcomed the chief guest and the student participants.

A brief introduction of the chief guest, Professor Dr. K.Radhamani was delivered. She has 12+ years of experience in the teaching field and an Expertise in Finance and Analytics. Actively participated and published a paper in national, international and UGC Journals.

She shared her vast experience and knowledge in the field of marketing including Marketing Environment, Marketing Segmentation, Functions of Marketing Management etc. She also discussed Consumer behavior and Sales promotion involved in Marketing. Atlast, the meeting was concluded with a vote of thanks by Somasundaraman. Overall it was a useful session and the students gained a lot of knowledge in the field of Marketing.

DAY – 3

On the Third Day of the Webinar, Mariam Bobby from AI–DS Department gave the Address and welcomed the chief guest and the student participants. A brief introduction of the chief guest, Mr. Sivabalu was delivered. He has 20+ years of experience in educational institutions and industries at various levels and is the Vice President of Business Development in Hanodale Solutions.

The guest shared his knowledge and taught the participants about IT Management which includes Information Systems, Various Business Environment, Design and use of Information System. He even shared thoughts about Product and Service based companies. At the end, the session was concluded by Mariam Bobby with the vote of thanks.

Overall it was an interactive and useful session for all the participants.

DAY- 4

On the Fourth Day of the Webinar, Priyadharshini P from AI-DS Department gave the Address and welcomed the chief guest and the student participants.

A brief introduction of the chief guest, Mrs. Priyanka Santani was delivered. She has 13+ years of experience in HR and various roles. Her roles include Human Resource Associate in Human Resources field, Employee engagement, Training Performance Management, HR Innovator in an organization of high morale etc.

The speaker shared her knowledge about Financial Management which included Objectives of Financial Management, Types of job roles in Financial Management, Functions of Financial Management and also spent time in clearing the queries of the participants.At the end, the session was concluded by Priyadharshini with the vote of thanks.

Overall, it was a very knowledgeable session for all the participants.

DAY – 5

On the Fifth Day of the Webinar, Somasundaraman R from AI-DS Department gave the Address and welcomed the chief guest and the student participants.

A brief introduction of the chief guest, Professor Dr. K.Radhamani was delivered. She has 12+ years of experience in the teaching field and an Expertise in Finance and Analytics. Actively participated and published a paper in national, international and UGC Journals.

In this session, the speaker taught the participants about the importance of Quality Management. She explained to them about Quality Satisfaction, PDCA cycle, Key elements of total Quality Management, TQM Principles, 6 Sigma technique (DMAIC) and so on.At the end, the session was concluded by Somasundaraman R with the vote of thanks.

Overall the entire five-day session was very informative and inspiring to the participants and all were able to gain valuable knowledge from the speakers about various kinds of Managerial skills that are required for the future career journey.

EXPERT TALK ON REAL TIME APPLICATION IN CLOUD COMPUTING:

We are excited to announce an upcoming event on the topic of "Real-time Applications in Cloud Computing" featuring Dr. N Deepa, an Associate Professor at Saveetha School of Engineering, SIMATS Chennai.

Cloud computing has become an integral part of many businesses and organizations due to its scalability, flexibility, and cost-effectiveness. However, there are still many questions about how to use cloud computing to its full potential, particularly in real-time applications.

Dr. N Deepa is an expert in cloud computing and has conducted extensive research in the field. During this event, she will share her insights and

expertise on how to effectively implement real-time applications in cloud computing.

The event will take place on March 17, 2023, from 7 pm to 8 pm. The event will be held virtually, and participants can join from anywhere in the world.

This is a great opportunity for anyone interested in cloud computing to learn from an expert in the field. So, mark your calendars and join us for an insight

EXPERT TALK ON KNOWLEDGE TRANSFER ON PYTHON:

On March 18th, 2023, an expert talk on knowledge transfer in Python was held from 6:30 to 7:30 pm in Google meet. The speaker for the event was Ms. C.A. Daphine Desona Clemency, an Assistant Professor in the CSE Department, Sathyabama Institute of Science and Technology. The event was well-attended by students interested in Python and knowledge transfer.

The speaker began her talk by emphasizing the importance of knowledge transfer in today's technology-driven world. She then delved into the specifics of

knowledge transfer in Python, highlighting the various techniques and tools available for the same.

She also discussed the various challenges associated with knowledge transfer in Python, such as language barriers, technical complexities, and lack of proper documentation. She suggested ways to overcome these challenges and stressed the need for clear communication. The talk was followed by a Q&A session, during which the attendees had the opportunity to clarify their doubts and seek further insights from Ms. Daphine. The event concluded with a vote of thanks from the students, who expressed their gratitude to Ms. Daphine for sharing her expertise with the audience.

Overall, the expert talk on knowledge transfer in Python was a highly informative and engaging event, providing valuable insights into an important topic in the field of computer science. It was a great opportunity for participants to learn from an experienced professional and gain a better understanding of how to transfer knowledge effectively in the context of Python.

HANDS ON TRAINING ON FULL STACK DEVELOPMENT:

From March 20 to 24, 2023, Gamma Hall hosted a paid Hands-on Training on Full Stack Development, exclusively for college students who were interested in gaining practical experience in this field. The training was conducted by Vinoth Subramanian, a corporate trainer from Hanodale Solution who had years of experience in Full Stack Development.

The training started at 9:00 am on the first day, with an introduction to Full Stack Development and its various components. The students were taught to work with different software tools to start working on their projects. The trainer explained the importance of Full Stack Development and how it plays a crucial role in the software development process.

The training was highly interactive, with the trainer providing hands-on training to the students. The students were divided into small groups, and each group was assigned a mentor who provided guidance and support throughout the training. The mentors were experienced professionals in

the field of Full Stack Development and they were highly skilled in the latest technologies and tools used in this field.

The training covered a wide range of topics, including HTML, CSS, JavaScript, Node.js, Express.js, and MongoDB. The students learned how to develop a Full Stack web application from scratch using these technologies. The trainer explained the importance of each of these technologies and how they worked together to create a Full Stack web application.

The training also included a series of practical exercises and quizzes, which helped the students to apply their newly acquired knowledge and skills. The exercises were designed to simulate real-world scenarios, and they helped the students to understand the various factors that influence Full Stack Development, such as cost, size, and performance.

The training ended at 4:10 pm on the last day, with the students presenting their completed Full Stack web applications to the trainer and their peers. The trainer congratulated the students on their hard work and dedication, and encouraged them to continue to pursue their interests in Full Stack Development.

Overall, the Hands-on Training on Full Stack Development was a huge success, with students gaining valuable hands-on training and experience in this field. The trainer was highly praised for his efforts in conducting such a well-planned and informative training, and many students expressed their interest in attending similar events in the future

MINI PROJECT EXPO 2023:

On March 21st, 2023, the Mini Project Expo 2023 was held from 9:00 am to 4:00 pm at Beta Hall. The event aimed to showcase the innovative and creative mini projects developed by the students.

The event began with an inaugural ceremony, during which the chief guest, Mr. Nimalmadhan PP, Security Delivery Team Lead Accenture, Chennai, delivered a keynote address. He emphasized the importance of innovation and encouraged the students to continue pursuing their passion for technology. The ceremony was followed by the opening of the project exhibition, where the students displayed their mini projects to the attendees.

The projects on display covered a wide range of topics. Each project was unique and demonstrated the students' technical skills and creativity. The projects were evaluated by a panel of judges.

Throughout the day, the attendees had the opportunity to interact with the students and learn about their projects. The students were enthusiastic and eager to explain the technical details of their projects.
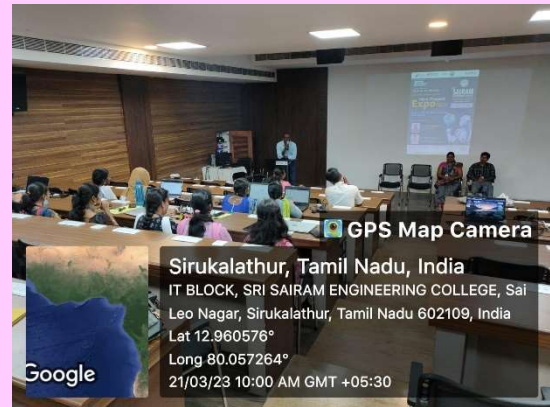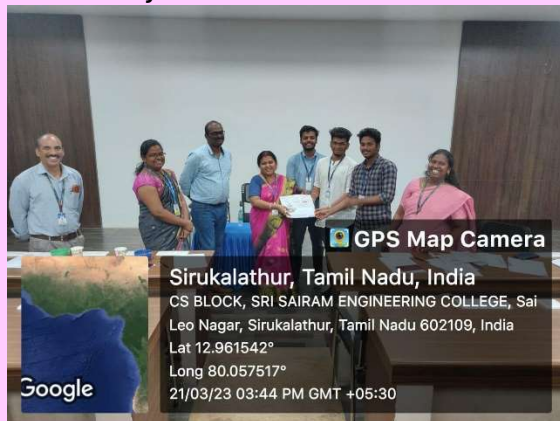

The event also featured a series of technical talks by industry experts, including Dr. Nancy Noella RS, Assistant Professor, CSE Department, Sathyabama Institute of Science & Technology. She spoke about the current trends in the industry and the skills required to succeed in the tech industry.

The event concluded with a prize distribution ceremony, where the winners of the best mini projects were announced.

Overall, the Mini Project Expo 2023 was a highly successful event that provided a platform for the students to showcase their technical skills and creativity. The event also served as a source of inspiration and motivation for the students to continue pursuing their passion for technology. The efforts put in by the organizers and participants made the event a huge success.

POWER SEMINAR ON INNOVATIONS AND INDUSTRY EXPECTATIONS IN ARTIFICIAL INTELLIGENCE:

On Friday, March 24, 2023, the Alpha Hall was the venue for an exciting event on Innovations and Industry Expectations in Artificial Intelligence. The event was organized exclusively for college students who were interested in gaining insights into the latest advancements and trends in the field of Artificial Intelligence. The keynote speaker for the event was Mr. Subramani Arumugam, a highly respected Data Scientist with many years of experience in the industry.

The event started at 1.25 pm with a welcome address from the organizers,

who expressed their delight at the turnout and emphasized the importance of Artificial Intelligence in today's world. They introduced the speaker, Mr. Subramani Arumugam, and invited him to take the stage. Mr. Arumugam began his talk by discussing the history of Artificial Intelligence, the current state of the industry, and the many challenges that lie ahead.

He then proceeded to explain the various innovations that have taken place in the field of Artificial Intelligence in recent years, including machine learning, deep learning, and natural language processing. He also discussed the use of AI in various industries, such as healthcare, finance, and manufacturing, and the potential benefits and risks associated with these applications.

The audience was highly engaged throughout the talk, asking questions and sharing their own experiences and opinions on the topic. Mr. Arumugam provided insightful answers and encouraged the students to pursue their interests in Artificial Intelligence, emphasizing the importance of learning and staying up-to-date with the latest developments in the field.

After the talk, there was a brief networking session where students had the opportunity to meet and interact with Mr. Arumugam, as well as other professionals in the field of Artificial Intelligence. The event ended at 4:00 pm, with the organizers thanking the students and Mr. Arumugam for their participation.

Overall, the event was a huge success, with students gaining valuable insights into the field of Artificial Intelligence and its many applications. The talk by Mr. Arumugam was highly informative and engaging, and the networking session provided an excellent opportunity for students to connect with industry professionals. The organizers were highly praised for their efforts in organizing such a successful event, and many students expressed their interest in attending similar events in the future.

HARDWARE HACKTHON 1.0:

On the 27th and 28th of March 2023, the Department of Artificial Intelligence and Data Science at Sri Sairam Engineering College hosted

the Hardware Hackathon 1.0. The event was attended by a diverse group of students who were enthusiastic about creating innovative solutions using hardware tools. The competition was judged by a panel of experts, which included Mr. Nanu Swamy, the founder of the Maxelerator foundation, Ms. Shrimathi Naveena Swamy, a serial entrepreneur from Silicon Valley, and Dr. Raghavendra Prasad, the CEO of AstraQuark Digi solution Pvt Ltd. The teams were required to use their creativity and skills to come up with unique hardware solutions, and the top three teams were awarded cash prizes worth a total of 30,000.

Preparation and Planning

The event was carefully planned and executed by the Department of Artificial Intelligence and Data Science. The HOD of the department was actively involved in encouraging the students to participate and in providing the necessary guidance and support. The teams were allowed to bring their own hardware tools, and the department provided additional equipment as required. The participants were briefed on the rules and regulations of the competition, and they were given a theme around which they had to create their solutions.

Day One

The event kicked off on the morning of the 27th of March 2023, with the eight teams setting up their equipment and preparing to work on their solutions. The teams were diverse in terms of their backgrounds and skillsets, and they had a range of innovative ideas. The atmosphere was energetic and competitive, with the teams working hard to develop their solutions within the given time frame.

The guest speakers, Mr. Nanu Swamy, Ms. Shrimathi Naveena

Swamy, and Dr. Raghavendra Prasad, arrived at the event and interacted with the participants. They shared their insights and experiences with the students, encouraging them to think outside the box and to pursue their ideas with passion and determination.

The teams continued to work on their solutions throughout the day, with occasional breaks for refreshments and discussions. The judges visited each team, assessing their progress and providing feedback and suggestions. The students were highly motivated and focused, and they worked tirelessly to refine their solutions.

Day Two

The second day of the event began with the teams putting the finishing touches on their solutions. They were eager to showcase their creations to the judges and to the other participants. The atmosphere was charged with excitement and anticipation.

The presentations began, with each team demonstrating their solution and explaining the technology and hardware tools

they used. The judges were impressed with the level of creativity and innovation displayed by the participants, and they provided valuable feedback and suggestions for improvement.

After all the presentations were complete, the judges deliberated and selected the top three teams. The first prize went to a team that had developed a unique solution using Raspberry Pi and Arduino, which could be used in the agricultural sector to monitor soil moisture and nutrient levels. The second prize went to a team that had developed a smart home automation system using IoT devices, and the third prize went to a team that had created a wearable device to monitor and regulate heart rate and blood pressure.

Conclusion

The Hardware Hackathon 1.0 was a resounding success, thanks to the hard work and dedication of the participants and the support of the

Department of Artificial Intelligence and Data Science. The event provided an excellent platform for the students to showcase their skills and creativity and to interact with experts in the field. The guest speakers, Mr. Nanu Swamy, Ms. Shrimathi Naveena Swamy, and Dr. Raghavendra Prasad, were highly impressed with the quality of the solutions presented by the students. The event concluded with

THANK YOU