



Editor's Choice

- Abizer Vakil

Welcome to the 60th edition of Atharva magazine from the Web and Media Committee. This month greeted us with many guest lectures, events, and festival celebrations. Mr. Sudin Baraokar gave the first Guest Lecture on 4th Jan 2023 about "Cyber Security & Emerging Technologies." The following Guest lecture was given by Mr. Mohit Tripathi on 7th Jan about "Sentimental Analysis using NLP." Another Guest Lecture was conducted on 7th Jan by Dr. Viral Gupta on the topic "Maximizing the business" value by making a data-driven decision." The next one was conducted on 9th Jan by Mr. Ritesh Hirwani, who gave us insights on "BFSI and Market Risk Analysis." On 11th Jan, SIC celebrated Lohri on the campus premises. Eve began with musical performances followed by a traditional fire ceremony and then ended with dance performances. Then came the two-day annual event of SCIT, "Graffiti." It is a techno-managerial fest and a flagship event of SCIT, which a student committee organizes. The theme for this year was AB INITIO which signifies a new beginning, as this event came back after two years of wait. A few highlight events were Nautanki Shaala, the battle of bands, and Pro Night, Sunburn. Pongal was celebrated on 12th Jan on campus, which comprised many activities based on cultural traditions. Then Makar Sankranti festival was celebrated in the same traditional way on 20th Jan In the latter half of the month, a guest lecture by My Utkarsh Verma was delivered on the topic 'loT and Blockchain Technology". Then came The big event organized by the Guest lecture committee of Data Science students, which is "Dattansh, the 5th annual analytics conclave". In the end, a Data privacy week was observed in the college, organized by Team Matrix, concerning Data Privacy and Security awareness. Pleasant reading!



Lohri in SIC

-Sagar Choudhury

SIC barely misses out on an opportunity to celebrate a festival, and Lohri, much like the previous years, was honored with a lot of enthusiasm as well. The event started sometime around 7 pm in the amphitheater near the mess area of the campus. The announcers began the affair with an energized welcome to all three institutes of SIC. After this, we had a singing performance of Punjabi songs where the gathering hummed the lyrics along with the performers. SCIT's Konnect committee then took center stage and livened up the atmosphere with Punjabi and Hindi songs. They sang and performed their heart out, and the crowd did not hold back in showing their appreciation. Lohri festival customs were then carried with the crowd moving towards the rear of the auditorium. There, a massive fire was lit up, followed by a string of chants and prayers, and as per traditions, people assembled there, threw specific edibles like popcorn into the fire, and prayed for their well-being. After the fire ceremony, we had a couple of dance routines from the students where they grooved to top Punjabi hit tunes. After the electrifying dance performances, the official celebration ended, but the gathering continued dancing to different songs their way. Like every good thing that comes to an end, the Lohri celebration also concluded with everyone dancing their heart out to different Punjabi hits.

What's Inside?

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Graffiti 2023

-Gandharva Singh











Graffiti is the two-day annual techno-managerial fest and a flagship event of SCIT. For the past two years, it has been happening in online mode, and this year Students had the chance to bring this flagship event back to Symbiosis Infotech Campus at its total capacity. Since it was a new beginning, the theme for Graffiti 2023 was "Ab initio." Students passionately worked in close collaboration for more than a month to successfully organize this event on the 14th and 15th of January. Graffiti 2023 began with the lamp lighting ceremony and inaugural address by Dr. Dhanya Pramod, Director of SCIT, at the SIC auditorium. A total of 17 events were held, and students from various colleges participated in these events. Corporate roadies, Nautanki shala, Bid guru, 3RROR 404, ADV[IT]YA, Spawn up, and G-MUN were a few events that captured everybody's attention. The competitive spirit and enthusiasm were high among participants. To add more flavors to the fest, there were multiple food stalls with various food and snacks. Famous standup comedian Aditya Kulshresth hosted a houseful show at the SIC auditorium, and he filled the audience with laughter and joy with his humor and wit. A grand main stage was set up for the culmination of Graffiti 2023 on the nights of the 14th and 15th with "Battle of Bands" and "PRO Night." On the 14th various bands performed along with the headline performance by the "Antaheen" band, and each performance mesmerized the audience. On the night of the 15th, EDM artist Julia Bliss rocked the entire SIC campus making everyone jump and grove on her beats. Graffiti 2023 concluded with her performance, leaving everyone wanting more of all this and waiting for the next edition of Graffiti.

Dattansh 2023

- Lakshmi Naveena Tamiri









On January 21st, the Data Science and Data Analytics (DSDA) branch of the Symbiosis Centre for Information Technology (SCIT) hosted the 5th annual Analytics Conclave, Dattansh. The event's theme was "Data Notitia," derived from the Latin word "notus", meaning knowledge. The event took place in the SIC auditorium and featured four industry experts.

The event was inaugurated with the lighting of the auspicious lamp by all the dignitaries, setting the tone for an exciting day of learning and discovery. The Director of SCIT, Dhanya Pramod, gave an enlightening speech about the future of the Data Science field and how SCIT has always been ahead of the curve in this domain.

The keynote speaker, Anish Nauhria, currently the Director of Data Science at American Express, shared his insights on critically analyzing data and how the data analytics life cycle is an iterative process. He also discussed three case studies about complex algorithms and their uses in various industries.

The second speaker, Prakash Patil, who is the Associate Director of Data Science at PepsiCo, discussed the importance of data quality and the key contributor towards the success or failure of a data science project. He also shared real-world use cases, including financial planning forecasts and functional competencies.

The third speaker, Dr. Ranga Srinivas Gunti, Manager, TATA motors, TPEML, discussed the importance of data science and AI for mobility engineers. He gave insights into the transition in the automotive industry from internal combustion engines to electric vehicles (EVs). He also discussed the problems that come with buying an EV, such as charging and range, and how data science can be used to solve them. He also discussed how data science models could be used to manage EV energy.

He was followed by Dr. Dinesh Helwade, Director of Analytics, Parker Avery's group, who discussed model operations and analytics and the importance of having different perspectives in a team. He also highlighted his career and technology roadmap over the past two decades, noting how technology has changed. He emphasized the importance of using SQL and Pyspark for analyzing big data and provided a high-level overview of the demand forecasting model used by the Parker Avery Group. He also discussed the key factors contributing to enterprise demand intelligence's success.

The event was concluded by a vote of thanks given by Professor Ajey Kumar, handling the guest lecture committee of the DSDA branch at SCIT. He conveyed a vote of thanks to all the speakers for their insightful and real-life experiences in the data science world. He also thanked the GL DSDA committee, the audience, and the faculties for assisting in a hassle-free Dattansh.

To conclude, the Dattansh 2023 was a great success and provided valuable insights into the advancements and future of the data science industry. The event was an excellent platform for students and professionals to learn and network with industry experts. Using real-world examples and case studies made the event more engaging and informative.

Data Privacy Week at SCIT

- Shubham Singh









This year, on account of Data Privacy Week, the Team Matrix decided to organize an event on January 23rd, 2023, to make everyone aware of the importance of privacy and security of data in day-to-day life. Data rules the world nowadays; it serves as a weapon, so it is very important to safeguard it properly. This sort of event encourages students to learn about protecting data and becoming more responsible digital citizens.

The event started with different engaging games, starting with "Cyber Quixx," a game similar to "snake and ladder" where climbing a ladder will test participants' knowledge of cyber security, followed by "The Eloquent Wizard," an extempore event. This was followed by an interesting session by industry experts on "Privacy by Design."

The event's first speaker, Mr. Navin Raju Roselin, started his speech by clarifying that data privacy is a mechanism for an individual to protect their own personal data. He stated that by 2024, 75% of the world's population would be using precautionary measures to secure their personally identifiable information. He said that data protection would eventually be offered as a service because everything is already available. He discussed the GDPR, which requires data protection, is available in the USA, and is similar to the CCPA. He used a VPN built into AWS services to demonstrate privacy by design. He discussed the seven privacy principles by design. He concluded by saying that making it simple and accessible to the general public is the key to adopting data privacy by design.

The event's second speaker, Mr. Santosh Kamane, provided more light on data privacy, starting with discussing how some people lead real and virtual lives and how privacy laws are anticipated in the upcoming bill. More personal information than we are aware of exists. He then talks about how businesses frequently use their customers' personal data to influence people's behavior. He discussed the SDLC Data Life Cycle stages of acquisition, storage, and transfer; he gave advice on controlling digital footprints; and he concluded by saying that security is never enough until it is too much.

Mr. Sanjay Ghore, the event's third speaker, began by posing a query about dopamine. He described the connection between dopamine and social media as well as the unconscious disclosure of personal information on these platforms. He talked about the phrases "PII controller" and "PII processor." He concluded his speech by defining the distinction between sensitive and personal data.

We were towards the end where Dr Nisha Ma'am gave a vote of thanks to the guest for their enlightening speech, which would benefit all listeners, as well as the organizing committee and all the other committees, for making this

event a huge success.



TEDx SIUHinjewadi 2023

- Lakshmi Naveena Tamiri









On January 28th, 2023, the auditorium at SIU Hinjewadi was buzzing with energy and excitement as the TEDx SIU Hinjewadi event took place. The theme of the event is the alchemy of shards. The event brought together a talented group of five speakers and three performers, each sharing their unique perspectives and insights on a wide range of topics. The day was filled with inspiring stories, thought-provoking ideas, and a sense of community and connection as attendees and participants celebrated the power of ideas to drive positive change.

The second speaker was Prajawal N.H, a 16-year-old entrepreneur-certified python programmer, azure data scientist, azure Al engineer, and scrum master. He founded his startup, Cloud Attack, in 2021 and was recognized as the youngest certified Azure Al engineer associate by the India Book of Records. Prajawal's talk was incredibly inspiring, and he quoted that the love of his life is his vision of solving social problems through affordable technology. He shared his method of solving problems, which starts with just starting, searching for problems and solutions, empathizing, defining, testing the answer, and getting feedback.

Veena Sethuraman, the third speaker, is a learning and leadership development specialist who explores the art and science behind human behavior. She is a mental health advocate and works to amplify the voices of the LGBTIQ community. Veena shared her story and the lessons she has learned along the way, including that failures and mistakes are inevitable but being stuck there is a choice and that it is essential to be kind to oneself and celebrate failures.

The fourth speaker, Shruti Agnihotri, is a production designer in the film industry, an artist, and a cat mother. Shruti shared how she overcame her fear of failure and how embracing change and celebrating impermanence has led to a peaceful and creative life.

The fifth speaker was Vishal Malhotra, an Indian film and television actor and show host. Vishal spoke about his acting career and how he became a successful entrepreneur. He emphasized the importance of consistency, passion for one's craft, financial independence, and never looking outward for validation.

The event was rounded off with three captivating performances. Ankita Chinnawar, a sand artist, made the audience emotional with her storytelling through art. Hrishikesh Tupkari and Ajay Chawale, musicians, gave voice to many emotions through their music. Lastly, Ankur Tangade, a comedian, left the audience in stitches with her humor.

In conclusion, TEDx SIUHinjewadi was a successful and inspiring event that showcased the talents of its speakers and performers. The lessons and stories shared will stay with the audience for a long time.









Makar Sankranti

- Gandharva Singh

Makar Sankranti is an Indian festival celebrated by several states of India around mid-January. Tamil Nadu celebrates Pongal at the same time, while Punjab celebrates Lohri at this time. While this is when all the different states celebrate their harvest festivals, true to India's diverse traditions, each one has its customs and practices. This festival marks the end of the long, cold winter months and the onset of spring. In ancient times, it was the time when the shift of the sun resulted in longer days. So, it is a celebration of the change of seasons from a harsher to a milder climate—a sign of hope and positivity. In SIC campus cultural Committees of SCIT, SCMHRD, and SIIB collaborated to organize the celebration of "Makar Sankranti" on the 21st of January. In the afternoon, students gathered in the open area of SIC and flew their Kites as high as possible, making the sky seem spectacular. The entire activity filled people with enormous joy. Later in the evening, students performed cultural dance and singing at the SIC amphitheater, which captivated everyone's attention. Following that, all the students danced heavily to the tunes of the DJ, keeping all their worries and stress aside. To make the entire scene more cherishing, the "Makar Sankranti special" dinner was organized at SIC mess consisting of delicious traditional delicacies. This is the culture at Symbiosis, celebrating all our traditional festivals with full enthusiasm and integrity to keep the spirit of our campus high and alive. After all, we believe in the philosophy of "Vasudhev Kutumbhkam."

Pongal Celebrations 2023

- Lakshmi Naveena Tamiri

The Pongal celebrations at Symbiosis Infotech campus on Thursday, January 12th, 2023, brought together students, faculty, and staff in a spirit of unity and celebration. The festival of Pongal, which marks the beginning of the harvest season, was celebrated with great enthusiasm and fervor by the students and faculty at the campus. The celebrations began at 9:00 AM with a traditional Pongal Pooja held in the Atrium. The students performed the pooja, followed by the distribution of Pongal, a sweet dish made from rice and lentils, among the students and faculty.

After the pooja, students, faculty, and staff gathered for a delicious Pongal feast at the SIC mess. The feast was a grand affair and included a variety of traditional South Indian dishes.

Later in the evening, the campus came alive with the sounds of music and dance as students participated in a Rangoli competition near B hostel at 5:00 PM. The match was a showcase of the student's artistic skills as they created intricate and colorful designs using a variety of materials.

At 6:00 PM, Cultural events were held in the Amphi theater. The events included singing, dancing, and instrumental performances by the students. The students showcased their talents and put up a fantastic show. The day's celebrations came to a climax with the Tug of War competition held at the SIC sports arena. The competition was fierce, and the winners were awarded gifts.

Overall, the Pongal celebrations are a perfect blend of tradition, culture, and modernity and provide an opportunity for students to come together and celebrate the joys of the harvest season. The Pongal Celebrations in symbiosis is a perfect example of how the Institution encourages students to embrace their cultural heritage and to celebrate it with great joy and enthusiasm.



- Sagar Choudhury

BFSI and Market Risk Analysis

- Mr Ritesh Hirwani







On January 9th, we had Mr. Ritesh Hirwani, the Director of Natwest, at our campus for a guest lecture session on the domain of BFSI.

He started the discussion by discussing his experiences with guest lectures at IIFT(Indian Institute of Foreign Trade), where he completed his master's in business administration. He shared that he specialized in finance and that even now, he is working with the finance department of Natwest that deals with market risk. He was affirmative about the experience and knowledge one can gain from these guest lectures given by industry experts and further encouraged the students of SCIT to always attend these lectures with a curious mindset.

The lecture then shifted to a topic of utmost importance to a student; how to pitch yourself to someone who is a recruiter on your campus looking to hire in the finance domain?

Elaborating on that, he talked about how Natwest handles four different elements of banking: Commercial banking, retail banking, private lending banking, and investment banking. He elaborated on all four parts, with particular emphasis on investment banking.

He then narrated his work in Natwest, related to market risk and educated the students on how people use mathematical formulas and datasets to calculate market risk. After market risk, he also shed some light on credit risk, where we talked about the three factors that determine the overall loss to a bank: the probability of default, loss given default, and exposure at risk default. The product of all these three factors constitutes the overall loss in credit risk.

The discussion shifted towards Basel III, a mandatory regulation for any financial firm operating worldwide. And from there on, he talked about data lakes every analyst uses to predict the future when calculating market risks.

He ended the discussion by encouraging the students to stay updated about what was happening in the market. And also motivated them to learn how to pitch themselves to a recruiter looking for any role by educating oneself with the work that role would require.

- Lakshmi Naveena Tamiri

Cyber Security & Emerging

Technologies

- Mr. Sudin Baraokar







Companies like Google, Apple, Amazon, Meta, and Microsoft are digital transformation leaders. Despite the success of digital transformation, which opens up new doors for innovation and optimization, organizations are now ten times more vulnerable to data breaches and cyber threats.

On 4th January 2023, Mr. Sudin Baraokar, our guest lecturer in the expert talk series conducted by Team Matrix in association with the Guest Lecture committee, gave his insights on how cybersecurity facilitates digital transformation.

Sudin Baraokar is the world's top-ranked technologist in Blockchain, Al, Data Science, and Emerging Tech. He established the Global Bank Chain Alliance in 2017 with SBI and 30+ large banks. He is a Global IT & Innovation Advisor and Founder of Deep Tech Startup. He has implemented over 50 significant transformation and innovation platforms, products and services across core banking transformation, digital payment infra, customer analytics, credit risk management, etc.

Sudin Baraokar shared his experience in banking transformation. He stated that today, Digital platforms are cloud-based from day zero, and the risk taken in banking has given us 170 times economic value over 15-20 years which showcases the importance of emerging tech. These transformation platforms can now be leveraged by sectors that need the most, like manufacturing and health care. Sudin shared his views on topics such as "Headless" digital transformation platforms, No code low code platforms, network visualization functions, and the Importance of having synthetic data.

Later in his session, he emphasized the significance of security and storage management, data protection, how cloud security posture management makes everything secure, and the importance of governance, risk management and compliance in the organization.

At the end of the session, Mr Sudin answered various questions raised by students. we must agree that it was an exciting, power-packed knowledgeable session.

- GANDHARVA SINGH

Maximizing the business value by making datadriven decisions





On 7th Jan 2023, the Guest lecture Committee of SCIT organized an online guest lecture. They invited Dr. Viral Gupta, Director of Global Practice for Data Engineering & analytics, Nagarro, to share his valuable insights with students. Dr. Gupta has over 25 years of industry experience working in companies like Accenture and DXC technology. The topic for the lecture was "Maximizing the business value by making data-driven decisions" Dr. Gupta started his talk by emphasizing the importance of data analytics and data-driven decisions in all the industries of any sector.

He then explained the methodology of data-driven decisions by considering a straightforward and real-life example of planning a vacation, which clarified the concept. Dr. Gupta told students about the major sources from where data is generated, i.e., through transactions, social media, and machines. He shared some fascinating and astonishing facts about Data which were very insightful and thought-provoking. Moving forward, he dived deep into the details of Data analytics, explaining critical concepts in a very structured manner. Dr. Gupta told students about data analytics' business aspects, like customer analytics, supply chain analytics, and marketing analytics.

He concluded his session by mentioning some of the use cases of data analytics associated with emerging technologies like IoT. The session was enriching and filled with relevant knowledge and valuable insights.

- Lakshmi Naveena Tamiri

Sentiment analysis using NLP





On 7th January 2023, the Guest lecture committee conducted an online guest lecture on Sentiment analysis using NLP by Mr. Mohit Tripathi. Mr. Tripathi is a Data Science Manager at Conde Nast Chennai. He has 12+ years of experience in developing and delivering data science solutions. He is fluent in all data science solution development cycle steps, from ideation and development to delivery and maintenance.

He has 12+ years of experience developing and delivering data science solutions and has worked at companies like LatentView and Tata Consultancy Services. He is also a professional YouTuber who teaches data science topics.

The speaker started by introducing various tools necessary in data science. He stressed the importance of big data, statistics and languages like SQL and PySpark. He also suggested courses with certifications for data scientists and data engineers like A2-900, DP-100, DP-203, and PL-3001.

He further elaborated on the uses of analytics along with cloud computing. He then showed the students a working Sentiment Analysis using NLP on Jupyter. Sentiment analysis (also known as opinion mining or emotion Al) uses natural language processing, text analysis and computational linguistics to systematically identify, extract, quantify, and study subjective information. Some topics mentioned were Stemming, tokenization, part-of-speech tagging and parsing. He concluded the session post a Q&A.

- Sagar Choudhury

loT and Blockchain technology





Former SCITian Mr. Utkarsh Verma, with more than 12 years of experience across professions, was featured in the online Guest Lecture session on January 19. The lecture was on the implementation of BlockChain in the field of IoT, a necessity for the critical data transmitted across devices.

He elaborated in detail on the different use cases of IoT in the field of Transport & Logistics, Utilities, Industrial, Environment, and more. From Goods tracking, intelligent electric grid management, parking sensors, smoke detectors, and wearable health monitors to agricultural livestock tracking, he used every possible use case to emphasize the importance of transferring temper or altering resistant data across devices.

Then, he described the technique of implementing blockchain in IoT as a solution to maintaining temper-resistant data. He talked about the various types of Blockchain-IoT interactions when it comes to implementation and then shifted the discussion to how to implement it. Here, he discussed establishing layers of authentication between the input, output, and IoT Controller network to ensure that accurate data is transmitted.

It was enlightening for everyone in the meeting, and the questions raised by the students after the session was a testimony to that.

Archives from the Past



Cloud Security

In December we had a charming session on Cloud Security to beat the Monday blues. It was spearheaded by Mr. Manas Pradhan. Manas is a proven technical leader with 15 years of experience applying technology to drive businesses.

The session started rolling on when Manas emphasized that cloud security is a shared responsibility of both Cloud Provider and Customer. He explained Cloud Security with 4 Scenarios. In the first scenario, he explained how the on-premise is migrated into the cloud. He delineated the security group, subnet configuration, NACL and internet gateway. In the next scene, have described the connection to cloud services by using VPC Endpoints. Then, he explained about securing a load balancer. Horizontal scaling refers to adding more instances rather than moving to a larger instance size. Vertical scaling is the addition of faster CPUs, memory, or resources to an existing server or the replacement of one server with a more powerful server. This is governed by the load balancer which distributes the traffic in the cloud.

In the last scenario, we were introduced to CloudFront which is a casting system that shifts on a regional basis and it will handle user traffic globally. We were made aware of securing the CloudFront. Disabling root SSH, password-based authentication, and serial port when not required will secure Virtual machines. Configuring non-root users in Docker image, making the root file system read-only and enforcing network policy will seal Containers. Both Data at rest and Transit have to be monitored carefully. Encryption should be employed on Data at Rest as well as Data at Transit. Sniffers should have to be used to monitor moving data. Access control mechanism should be intact for Stagnant data. Many thought-provoking questions such as industry readiness of cloud, confidential computing were posed in the Q&A session. In Summary, it was an overarching session that laid the cornerstone for cloud security to students.

Archives from the Past

Understanding IoT battery failure prediction

On 5th December, a learning event was organized, and the topic was predicting the battery performance of IoT sensors that Manikant introduced. K. As the world is heading towards more digitization, the use of IoT has increased rapidly. It can incorporate anywhere, be it at the home, office, agriculture, manufacturing industry, etc. He gave an idea to the students about batteries and different types of sensors used in IoT devices.

Further, he explained different data types and how battery performance is direct with time. He talked about the top sensor types in IoT, such as accelerometers, proximity, IR, gas, temperature, and many more. Mr. Manikant showed the graph to help understand the battery life cycle and predict battery failures. Later, he discussed the various challenges in IoT, including a high volume of data, a variety of data, and different approaches to tackle them.

Mr. Manikant helped the student understand the base model of ARIMA (Auto regression integrated moving averages) that helps make predictions. He also briefed how time series neural networks work, starting from capturing all dependent features, time dependency, dealing with complex non-linear data patterns, and new feature extraction. The event concluded with questions where Mr. Manikant answered the students' queries to grasp the concept.



MR. BHAWANI SINGH



Star
Alumni
-Gandharva Singh

Our star Alumni for this month is MR. BHAWANI SINGH, he is passed out from SCIT in the year 2008. He started his career as an Information security manager at TCS and was promoted to senior security consultant and project manager because of his excellence at work. After working at TCS in the domain of information security and project management for around 7.5 years, Mr. Singh entered the world of sales engineering by joining Checkmarx in 2018. He is presently working as a Principal Solution Architect at Checkmarx. Mr. Singh is a Confident & creative leader with a solid commitment to meeting business challenges with innovative IT Security Solutions. A fervent believer in the core values of listening to the customers, understanding customer requirements, and delivering results with expected results. He is a results-driven Security Professional with vast experience in multiple domains of Security. He has experience in Securing SDLC with products and process consulting, a deep understanding of Sales Engineering (pre/ post), Customer Success, Technical Account Management, and Project Management for customers from multiple geographies. He has a vast work experience in multiple geographies in the world with various work environments making him adaptable at solving challenges to get expected or better outcomes. He is someone who always seeks and works with commitment and positive energy.

Our Team



Prof. Vidyavati Ramteke

Graphic Designing Team







Junior

Social Media Team



Senior

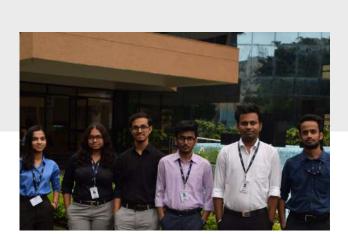


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