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Chairman's Message

DEEPAK SHARMA
Chairman
CSI, Lucknow Chapter
E Mail: deepak.sharma@nic.in
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Dear members,

It gives me and my team immense pleasure to present this newsletter to all my fellow friends and CSI members. It is not only my hope but belief also that you will enjoy going through this newsletter of CSI as it contains the summary of various prestigious events, Technical Talks and the developments took place during the period from April to June 2023.

We look forward to get your valued suggestions and feedback for further improving the contents of the newsletter.

With warm regards,

Yours sincerely,

(Deepak Sharma)
Chairman
CSI, Lucknow Chapter

Message from Hon. Secretary

DR. SHYAM KUMAR GARG
M. Tech. (Hons), Ph.D., FIETE
Hon. Secretary, CSI Lucknow Chapter
DGM (Rtd.) / Faculty Member- NABARD/ BIRD LKO
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Dear Friends,

New Management Committee has taken over the charge for the period from April 2023 to March 2024. On be-half of CSI, Lucknow Chapter, I welcome all new team members of the committee. I am sure that with their zeal and direction, our chapter will further reach to the new heights.

The first quarter of the tenue of new Management Committee i.e from April to June 2023 was jam packed with events, technical sessions and various activities. Annual General Meeting (AGM) was organized, followed by a knowledge sharing session on "Current Threat Landscape" for the benefit of the distinguished participants. Conducted Tech-Talk Sessions on "Cyber Surakshit Bharat" and "Revolutionize your Printing with Ecofriendly Printers". The CSI institutional membership was granted to Bansal Institute of Engineering and Technology (BIET), Luknow and a student chapter was opened. On the inaugural day of the student chapter, a tech-talk session on "Artificial Intelligence (AI) & Machine Learning (ML) and its applications" was conducted.

Friends, this is the first edition of "TechWings@Csilko" newsletter under the aggies of new Management Committee. New suggestions for making this newsletter more useful and meaningful are solicited.

I look forward to know your views on this newsletter.

Regards

(Dr. Shyam Kumar Garg)
Hon. Secretary,
CSI, Lucknow Chapter

Immediate Past Chairman Message

ANIL KUMAR SRIVASTAVA
Immediate Past Chairman
CSI, Lucknow Chapter
Ex. General Manager
Computronics India
Consultant in HR Company
11/133 Vikas Nagar, Lucknow-226022
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Dear Friends,

The previous tenue 2022-23 witnessed a lot of activities, technical sessions, discussions, national seminar and social events. I appreciate the enthusiastic and active participation of CSI members.

I personally appreciate and acknowledge the contribution and support made by every member of out-going Management Committee (MC). I had a fantastic and mesmerizing tenure as Chairman, CSI, Lucknow Chapter. New MC has taken over the charge on first day of April, 2023 and I welcome all the members on board. My best wishes are with them and I can ensure every CSI member that the constitution of new MC is well balanced and will deliver significantly.

I further assure you that I will keep on contributing to the up-coming activities of CSI Lucknow to best of my ability and capacity.

Thanks & Regards

Yours sincerely,

(Anil Kumar Srivastava)
Immediate Past Chairman
CSI, Lucknow Chapter

CSI Lucknow Chapter -Media Coverage

COMPUTER SOCIETY OF INDIA, LUCKNOW CHAPTER ORGANIZED 35TH ANNUAL GENERAL MEETING ON 26TH APRIL 2023 AT HOTEL GOLDEN ORCHID, NIRALA NAGAR, LUCKNOW

Computer Society of India, Lucknow Chapter organized its 35th Annual General Meeting on 26th April 2023 at Hotel Golden Orchid, Nirala Nagar, Lucknow.

The Annual General Meeting was attended by CSI Members in which CSI Lucknow Chapter Chairman Mr. Deepak Sharma welcomed all the Members and Management Committee Members 2023-2024. The meeting was held as per the Agenda Items.

Presentation of Minutes of 34th Annual General Meeting held on 26th March, 2022 was done by Mr. Vinay Kumar Johri, Vice Chairman cum Chairman Elect on behalf of the Hon. Secretary Dr. Shyam Kumar Garg. Mr. Harish Chandra Gupta presented Accounts for FY 2021-22 on behalf of Hon. Treasurer Dr. Puneet Misra. Mr. Anil Kumar Srivastava, Immediate Past Chairman presented activities organized by CSI Lucknow Chapter during the period from 01st April 2022 to 31st March 2023. Roadmap of activities for Financial Year 2023-24 was presented by Mr. Deepak Sharma, Chairman. Mr. Viinay Kumar Johri, Vice Chairman cum Chairman Elect offered the Vote of Thanks to all the Members present in the meeting.

Some Glipses of the Event :

TECHNICAL- Talk ON CURRENT THREAT LANDSCAPE IN ASSOCIATION WITH TREND MICRO ON 26TH APRIL 2023 AT HOTEL GOLDEN ORCHID, NIRALA NAGAR, LUCKNOW

Computer Society of India, Lucknow Chapter organized a Knowledge Sharing Technical Session on "Current Threat Landscape" in association with TREND MICRO. The Guest Speakers were welcomed and felicitated by the Computer Society of India Lucknow Chapter for sparing their valuable time.

Mr. Pavitra Kaushik, Business Head State Government Business, Trend Micro and Mr. Govind Singh, Head Technical State Government Business Trend Micro delivered their lectures on Current Threat Landscape and Attack Life Cycle – Connected Threat Defense and Importance of Threat Intelligence. They also covered Detection and Mitigation Strategies pertaining to Known, Unknown and Undisclosed Cyber Threats. The Sessions were informative, educative and well taken by the August Audience comprising of CSI Members, NIC Officials, Government Officials, Officials from Financial Sector and Academicians.

Mr. Arvind Sharma, Regional Vice President Computer Society of India offered Vote of Thanks to the Guest Speakers - Mr. Pavitra Kaushik and Mr. Govind Singh of Trend Micro and the Audience attending the Technical Sessions. Mr. Ankit Tiwari of Trend Micro Lucknow was appreciated for his great efforts for the Technical Sessions to bring into reality.

The Event came to an end after dinner and networking of the participants discussing various aspects covered in the Technical Sessions.

Some Glipses of the Event :

Tech-talk session on "Cyber Surakshit Bharat"

Aiming to strengthen the cybersecurity ecosystem in India and following the Government's vision of "digital India," the Ministry of Electronics and Information Technology (MeitY) , Government of India has launched the Cyber Surakshit Bharat initiative with the partnership of National Electronic Governance Division (NeGD).

Realizing such an importance to "Cyber Surakshit Bharat Programme", Computer Society of India, Lucknow Chapter decided to organize a Tech-Talk Session on 24th May 2023 with Accops Systems and Savex Technologies. The main speaker of the session was Sh. Ajit Pratap Kundan, Solutions Architect (Govt & PSU), who himself is considered as a seasoned techno-managerial professional with entrepreneurial skills.

In the beginning of the session, the speaker and the representatives of Accops Systems and Savex Technologies were welcome by Sh. Deepak Sharma, Dr. Punit Mishra and Sh. R. A. S. Tyagi with the bouquet of flowers. The participants who attended the session were from various Government Departments, PSU, CSI member, faculty members from various institutes, NIC, Banks and financial institutions.

During the session, Sh. Kundan explained and discussed the useful features of Government initiatives of cyber security, Uttar Pradesh cyber security Guidelines, alignment with National Institute of Standards and Technology (NIST)'s Cybersecurity Core Framework and Reporting Standards to protect, compliant with zero trust maturity model with phishing-resistant multi-factor authentication. Finally, Sh. Kundan discussed on how Government Customers to be Compliant with Zero Trust Model. The session was very informative and useful and appreciated a lot by the participants.

Sh. Deepak Sharma, Chairman, CSI, Lucknow, Sh. Vinay Kumar Johari, Vice Chairman, CSI Lucknow, Dr. Punit Mishra, Treasurer, CSI, Lucknow, Sh. Satyendra Kumar Gupta, (MC member), Sh. Balendu Jaiswal, (MC Member) and prominent CSI members - Sh. R. A.S. Tyagi, Sh. Arvind Sharma, Dr. A.K. Singh and Sh. Nafis Kidwai were present. Sh. Sandip Bhatia from Accops Systems and Sh. Arshad Siddique & Sh. K.G. Dwivedi from Savex Technologies were present.

At the end of the session, a Memento to the Speaker was presented by Shri R.A.S. Tyagi. Dr. Shyam Kumar Garg, Hon. Secretary, CSI Lucknow chapter extended vote of thanks to all guests, representatives of various departments, sponsors and other dignitaries. The session was concluded followed by the dinner.

Some Glipses of the Event :
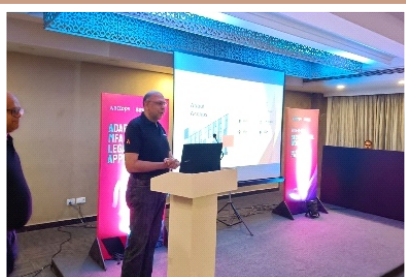
Inauguration of CSI-Student Chapter at BIET, Lucknow and Technical Session on AI, Machine Learning and its Application

A new CSI Student Chapter was inaugurated on 27th May 2023 at the department and Computer Science and Engineering in Bansal Institute of Engineering and Technology (BIET), Lucknow. During the inaugural day, a technical session on "Artificial Intelligence (AI), Machine Learning (ML) and its application" was kept. The technical session was jointly addressed by Dr Puneet Mishra (Assistant Professor, Lucknow University) and Dr Shambhavi Mishra (Assistant Professor., Lucknow University).

In the beginning of the session, Dr Puneet Mishra, Dr Shambhavi Mishra, Sh Vinay Kumar Johri, Vice Chairman cum Chairman Elect and Dr Shyam Kumar Garg, Hon. Secretary, Sh. Kamal Kumar, Prominent CSI member, Dr. S.K. Agrawal (Director BIET), Dr CLP Gupta (Dean Academics, BIET), Sh. Sameer Awasthi (HOD CSE BIET) and Sh. Abhishek Saxena (HOD IT BIET) lighten up the lamp.

The session was attended by the faculty members and students of BIET. Sh. Vinay Kumar Johari and Dr. Shyam Kumar Garg had the introductory speeches followed by the speech on the main subject by the invited speakers.

The learned speakers started the session with the history of AI and ML and latest developments in this emerging field. During the session, the learned speakers explained what is Artificial Intelligence (AI) & Machine Learning (ML), how AI and ML are co-related and how they are being used in different sphere of life like in entertainment, health care systems, transportation, visual perceptions, speech recognition, decision making, real time applications in games, drones, navigations of space vehicles, and about the future use of the technology.

The event was coordinated by Sh. Manish Kumar Soni, Assistant Professor, Department of CSE, BIET, Lucknow. Concluding speech was delivered by Sh. Arvind Sharma,

Some Glipses of the Event :

Tech-talk session on Revolutionize your Printing with EPSON Ecofriendly Printers"

We are witnessing the fast revolution in the field of Information Technology. The Printers are not lagging behind. We have seen a long journey of revolution in the field of print technology from dot matrix printers, laser Printers, inkjet Printers, thermal printers to now eco-friendly printers, 3D printers, etc. Printer is the integral part of Information Technology and to get acquainted with the exciting field of printing, Computer Society of India, Lucknow Chapter invited the representatives of EPSON India Limited which is one of the pioneer companies in manufacturing printers.

The main speakers of the session were Sh. Tanmoy Chakraborty, Deputy General Manager and Sh. Amit Sehgal, Corporate Head, EPSON India Limited. Other team members – Sh. Vinodhera Shetty (Per-sales) and Sh. Bipin K Singh, (Corporate Sale, UP) also participated in the session. The session was held on 28th June 2023 (Wednesday) from 6.30 PM onwards at Golden Orchid, Nirala Nagar, opp. Ram Krishna Math, Lucknow.

The speakers explained the social, ecological and economic progress in context of technology being used in the printers and presented how the 17 sustainable development goals of United Nations (UN) are being adhered to while developing the printer technology. The technology now used in printers consumes less power, has the facility of recycling and reusing the papers, eco-friendly, carbon-negative, heat-free, etc.

Dr. Shyam Kumar Garg introduced the speakers to the audience and the session begun with the welcome by presenting the bouquets to the main speakers. The participants were from various State and Centre Government departments, PSU, CSI members, faculty members from various institutes, NIC, Banks and financial institutions.

Sh. Deepak Sharma, Chairman, Sh. Vinay Kumar Johri, Vice Chairman, CSI Lucknow, Dr. Puneet Mishra, Treasurer, and MC members- Dr. Arunabha Mukhopadhyay, Sh. Satyendra Kumar Gupta, Sh. Balendu Jaiswal and Dr. Amitabha Yadav (NC member) along with other prominent CSI members were present in the session.

At the end of the session, mementos to the Speakers were presented by Sh. Deepak Sharma, Chairman, CSI, Lucknow. Dr. Shyam Kumar Garg, Hon. Secretary, CSI Lucknow Chapter delivered the Vote of Thanks to all the guests, representatives of various departments, sponsors and other dignitaries. The session was concluded followed by dinner.

Some Glipses of the Event :
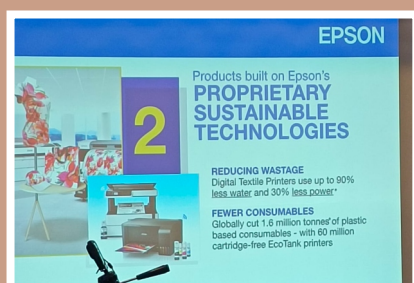
TEACHING IN THE DIGITAL AGE

- **Dr Dheeraj Mehrotra**
Principal, Kunwar's Global School, Lucknow

Teaching in a Digital Age is a priority toward excellence in Academics. The experience during the Pandemic proved to the masses that the technology used in digital learning could enable students to comprehend content matter more thoroughly and at a better preface to learning and doing. The students will become more involved in the learning process due to the various new instructional strategies teachers will implement.

Absolutely! Achieving academic achievement has made it clear that effective classroom instruction in the digital era is a top responsibility. The capacity of technology to radically alter schooling has certainly been brought to light due to the epidemic. It has shown us that digital learning platforms have the potential to significantly improve students' grasp of the material while also providing them with a learning experience that is more immersive and interesting to them.

Teachers can apply various instructional tactics and materials that appeal to students' preferred learning methods when they use technology. Students can better understand complicated ideas because of the interactive multimedia material, simulations, virtual laboratories, and online collaboration tools that may be included in these courses. Students can actively engage with the learning materials and work with their classmates in a virtual environment; both are made possible thanks to the incorporation of technology, which encourages active participation and student involvement.

In addition, learning via digital platforms paves the way for novel approaches to individualised and flexible education. The instructional strategy teachers use may be adapted to meet the specific requirements of individual students, and teachers can also use specific interventions to assist students in making progress in their education. Teachers can keep track of student performance using data analytics and learning management systems. This enables them to pinpoint students' weak spots and provide timely feedback, all of which contribute to the student's ongoing development and progress.

Teaching in the digital era confers agency on both instructors and students, enabling both groups to investigate novel instructional strategies, embrace digital technologies, and adjust to the shifting educational environment. It prepares the way for a learning environment that is more dynamic and student-centred, where students may develop skills in critical thinking, teamwork, creativity, and digital literacy – all of which are key competencies for success in the 21st century.

As we go ahead, educational institutions, teachers, and legislators must acknowledge the value of digital learning and invest in the appropriate infrastructure, resources, and opportunities for professional development. We can unlock new possibilities, improve learning outcomes, and better prepare our kids for the challenges and opportunities of the future if we embrace the promise of technology in education.

Empowering Common People: The Impact of 5G Technology and the Indian Government's Role

- Hari Om Dwivedi

CSI SRMCEM Student Chapter

dwivedihari987@gmail.com

Introduction:

The advent of 5G technology brings immense potential to transform the lives of common people. With its unprecedented speed, capacity, and low latency, 5G is set to revolutionize connectivity and unlock a multitude of benefits. In India, the government has played a significant role in promoting and facilitating the deployment of 5G networks, aiming to bring these advantages to the doorstep of every citizen. In this article, we explore the impact of 5G technology on the lives of common people and delve into the Indian government's role and benefits schemes.

1. Enhanced Connectivity:

5G technology's faster speeds and increased network capacity will transform the way people connect and communicate. Common people will experience seamless streaming of high-definition content, lag-free video calls, and faster downloads and uploads. This means a significant improvement in the overall internet experience, making online activities such as e-learning, video conferencing, and entertainment more enjoyable and accessible.

2. Internet of Things (IoT) and Smart Homes:

The Internet of Things (IoT) is expected to flourish with the advent of 5G technology. Common people will benefit from smart home devices, such as intelligent thermostats, security systems, and appliances, all seamlessly connected through 5G networks. This connectivity will enhance convenience, security, and energy efficiency in homes, providing a more comfortable and sustainable living environment.

3. Healthcare and Telemedicine:

5G technology has the potential to revolutionize healthcare services, particularly telemedicine. Common people will have improved access to remote consultations, diagnostics, and monitoring, eliminating the need for physical visits in many cases. The low latency and high reliability of 5G networks ensure real-time transmission of vital data, enabling remote patient monitoring, virtual surgeries, and consultations with healthcare professionals from anywhere, even in remote areas.

4. Agriculture and Rural Development:

India's agricultural sector stands to benefit greatly from 5G technology. With the increased connectivity and access to real-time data, farmers can optimize crop management, irrigation, and pest control practices. 5G-enabled sensors and drones can provide valuable insights into soil health, weather patterns, and crop diseases, helping farmers make informed decisions and improve agricultural productivity. This technology can bridge the rural-urban divide, empowering farmers with digital tools and market access, thus promoting rural development.

5. Government Initiatives and Benefits Schemes:

The Indian government recognizes the transformative potential of 5G technology and has taken significant steps to promote its deployment. The National Digital Communications Policy 2018 aims to provide broadband connectivity to all citizens, with a focus on 5G technology. Additionally, the government has introduced initiatives like the BharatNet project, aiming to connect over 250,000 gram panchayats (village-level administrative units) with high-speed internet. Such initiatives ensure that the benefits of 5G technology reach every corner of the country, empowering common people with access to digital services and opportunities.

Furthermore, the government has launched several benefits schemes that leverage 5G technology to enhance citizens' lives. For instance, the Digital India program promotes digital literacy and facilitates online service delivery, enabling common people to access government services easily. The Ayushman Bharat scheme utilizes telemedicine services made possible by 5G networks to provide affordable healthcare to the marginalized sections of society.

Conclusion:

5G technology has the potential to transform the lives of common people in India, revolutionizing connectivity, healthcare, agriculture, and overall quality of life. The government's proactive role in promoting and facilitating the deployment of 5G networks ensures that the benefits reach every citizen. As 5G technology unfolds its transformative power, we can anticipate a future where connectivity becomes ubiquitous, empowering common people and fostering inclusive development across the nation.

Embrace the power of 5G and embark on a journey of a digitally empowered India!

International Yoga Day Celebrations on 21 June 2023
Reported by Dr. Shyam Kumar Garg

CSI Lucknow chapter wish all CSI members and their family members a good health and a happy international Yoga Day. We are pleased to share some of the photographs sent by our beloved friends:

Kamal Kumar

Dr. Shyam Kumar Garg

Gulab Chand

Dr. A.K. Singh

Dr. Pankaj Goswami

Rakesh Kumar Thakur

This Marker is the beginning of the Next Newsletter, rather than the end.