

DATA CHRONICLE

Volume 2 | Issue 4 | April 2024 | Quarterly Edition



CHIEF EDITOR'S WORDS



Dr. B. Amutha
SCO-Newsletter Head

***“YOU CAN LEAD A HORSE TO WATER; BUT
YOU CAN’T MAKE HIM DRINK”
– PROVERB***



**THE GURKUL UNIVERSITY- ORIGIN OF DATA
SCIENCE AND DATA ANALYTICS IN INDIA**

Dear Coevals!

Happy to meet you again after the first quarter of 2024!!!

Our garden is always filled with White Blooms.

Let us start with an interesting real story about **“Data Analytics and it’s root in Ancient India”** by **Adharsh Srivastava** in his website in the origin of palmistry.

Prayag is one of the oldest cities in India. This city is situated at the confluence of the 3 rivers, Ganga, Yamuna and Saraswathi. This city was established as a learning center, by a Reverend Sage Bhardwaj. His full name is **Maharishi Bhardwaj**, contributed to bring Rig Vedha to India. He only has invented many theories of **Indian Traditional Medicine System -Ayurvedha**. Sage Bhardwaj established **Gurukul University**, on the banks of Ganga in Prayag. This University became a prominent learning center in India, imparting subjects of history, literature, medicine, economics and so on, where thousands of Indian students opted and studied there.

Sage Bhardwaj assigned various experimental projects to his students, where the students travelled throughout India to gather different datasets for research. Spearheaded by Sage Bhardwaj, the students spread out in villages all across India to gather hand palm prints and record the life history of people. With a list of questions prepared by Sage Bhardwaj, the students started revealing the answers for the questions. The answers were written in dried palm leaves and kept in archives at the University.

Sage Bhardwaj’s disciples continue collecting data for 5 years and understood the exhaustive task, where science is nothing but a path of logic and faith. Sage Bhardwaj envisioned this as a collective activity, where many experts were called to view and comment on the data. He also informed his students about the collection of handprints and related life history to build a **“Predictive Model”** to predict and forecast future outcomes of life. There are totally 1 million records exist, where the owner of the palm print crossed the age of 90 with great wealth if the line in the hand is straight else they can have illness and sudden death.

CHIEF EDITOR'S WORDS

This real story kindled my interest on Data Science and Data Analytics about how our Ancient Indian Sages were able to bring statistical calculations on real time captured data. This is how the evolution of data science in India is tailored from statistics on data. With this information, I assure that the Department of DSBS, has emerged it's activities working on mountain sizes of data on different aspects. The students and faculty of DSBS are nurtured from the HoD and the higher authorities of the School and the University, so as to gather the data through different platforms and data sets, to analyze them, clean them, connect them and try to fetch sense out of them.

Hope it's an interesting and never-ending Journey towards success!!!

Hang on a Minute! Visit us in the next Edition! Unopen pages have thrilling Mysteries!!!

"Change is the End Result of all True Learning" - Proverb

B.Amutha

SCO-Newsletter Head



Faculty Team

Team DSBS

Advisor



Dr. M. Lakshmi

PROFESSOR & HEAD - DSBS



Dr. K. Shantha Kumari
Associate Professor



Dr. R. Rajkumar
Associate Professor



Dr. SV. Shri Bharathi
Assistant Professor



Dr. K. Panimalar
Assistant Professor



Dr. D. John Deva prasanna
Assistant Professor

Support Team



Ms R.S. Sangeetha
LAB - Programmer



Ms. R. Mahalakshmi
LAB - Programmer



Mr. D. Gowtham
DTP- Operator

Dear All,

As we reflect on the events and achievements of the past quarter, I am delighted to present a glimpse of the exciting endeavours undertaken by our department at SRM Institute of Science and Technology, Kattankulathur. From groundbreaking research to inspiring student initiatives, the period of January to March 2024 has been filled with remarkable milestones and accomplishments.

Our department has been at the forefront of innovation, fostering a culture of excellence in both academia and industry. To our students diligently preparing for their semester exams, I offer my heartfelt encouragement and support. Your dedication and hard work are commendable, and I have no doubt that your perseverance will yield success. Remember, each challenge is an opportunity for growth, and your efforts today will pave the way for a brighter tomorrow.

As we bid farewell to our outgoing students, I extend my warmest wishes for a future filled with endless possibilities and achievements. Your time at SRMIST has been marked by invaluable experiences and cherished memories, and as you embark on this new chapter of your lives, may you continue to inspire and excel in all your endeavors.

Looking ahead, the forthcoming placements present an exciting opportunity for our students to showcase their talents and skills to leading organizations across diverse industries. To those preparing to embark on this journey, I offer my best wishes for a successful placement season. Your resilience, coupled with the knowledge and expertise acquired during your time here, will undoubtedly open doors to promising career opportunities.

Finally I would like to express my gratitude to all our faculty members, staff, and students for their unwavering dedication and contributions towards the continued success of our department. Together, let us strive to uphold the values of excellence, innovation, and integrity that define SRMIST.



WARM REGARDS

>>> PROF M. LAKSHMI

**Head of the Department
Data Science and Business Systems
SRM Institute of Science and Technology,
Kattankulathur**

DEPARTMENT EVENTS

1. National Conference on Recent Advances of Data Science in Instrumentation Technology [nCADSIT '24]
2. Bharat Blockchain Yatra - Industry connect
3. Overseas education from IDP
4. Trinity Hackathon - DSBS Association event
5. A workshop on ransomware attacks - Outreach event
6. Innofusion'24 - Hackathon - DSBS Association event
7. Placement enhancement program - Alumni and Placement event
8. Hands-on Training in TCP /IP And DHCP - Industry subject lecture
9. Celebrate Womanhood - International Women's day celebration.
10. Layers 2.0 - Blockchain club SRM - Hackathon
11. Inaugural- IEEE SMC student society chapter inaugural
12. Industry academia connect

FACULTY ACHIEVEMENTS

1. Publications & Patents
2. Conferences and events
3. Faculty Up-skilling
4. Notable achievements

STUDENTS ACHIEVEMENTS

1. SRM SDG Hackathon winners
2. Rajasthan Police Hackathon winners
3. Students - Best paper awards
4. Yuvamanthan Hackathon
5. AGAM 2.0
6. Alumni connect

PLACEMENT ACTIVITIES

1. Placement training
2. Placement talks
3. Placement statistics

National Conference on Recent Advances of Data Science in Instrumentation Technology" (nCADSIT '24)

DATA CHRONICLE

22nd 23rd Jan 2024



The National Conference on Recent Advances of Data Science in Instrumentation Technology (nCADSIT) has commenced, bringing together the brightest minds in data and instrumentation for two days of groundbreaking breakthroughs in collaboration with the esteemed CSIR-CSIO Chennai chapter at Mini Hall 2, TP Ganesan Auditorium, Kattankulathur on January 22-23, 2024. The conference has been inaugurated, marking the exploration of the frontiers of data science and its transformative potential for instrument technology.



The inaugural address delivered by **Mr. R. Jahadeesan, Head, Computer Division Electronics and Instrumentation Group, Indira Gandhi Centre for Atomic Research (IGCAR), Department of Atomic Energy, Kalpakkam** at the NCADSIT set the tone for a dynamic and intellectually stimulating gathering of researchers, scholars, and practitioners from various fields. The address emphasized the importance of conferences as catalysts for change and platforms for collaboration, innovation, and knowledge dissemination.

Mr. R. Jahadeesan highlighted the power of collective intellect and the exchange of ideas in driving progress in diverse disciplines. The address underscored the responsibility of conference participants to conduct their work with integrity, empathy, and a deep sense of ethics, addressing pressing global challenges such as climate change, healthcare disparities, social injustice, and technological disruption.

TECHNICAL SESSIONS

Demystifying Artificial Intelligence

Dr. Srinivasalu Reddy from **NIT Trichy** offered a comprehensive overview of AI. His session explored how AI algorithms analyze vast datasets to uncover patterns, with applications in diverse fields like genomics, climate science, and social sciences. He further discussed how AI empowers researchers to extract valuable insights from complex data and leverage machine learning and deep learning for developing predictive models.

Computer vision in Biomedicine

Dr. Srikanth Vasamsetti of **CSIR-Central Scientific Instruments Organization** presented the latest advancements in computer vision techniques for biomedical applications. The focus was on medical imaging analysis, disease diagnosis, and treatment planning. Real-world examples and discussions on challenges and future directions aimed to inspire collaboration and innovation in leveraging computer vision for improved patient care.

National Conference on Recent Advances of Data Science in Instrumentation Technology" (nCADSIT '24)

DATA CHRONICLE

22nd -23rd Jan 2024



Data Science revolutionizes Healthcare

Dr. AYYAPPAN G.S. from **CSIR-Central Scientific Instruments Organization** explored the crucial role of data science in advancing healthcare instrumentation. Through presentations and discussions, attendees learned how data science techniques are transforming healthcare by enabling personalized medicine, improving patient outcomes, and optimizing healthcare delivery.

Emerging trends in Automotive technologies

Mr. Srinivas, an expert at **Robert Bosch, Coimbatore**, presented a session on emerging trends in automotive technologies. He discussed advancements in electric vehicles, autonomous driving, connectivity, and sustainability. The session covered the integration of connectivity technologies like 5G, IoT, and V2X communication in modern vehicles, paving the way for smart mobility solutions like connected car services, predictive maintenance, and traffic management systems.

Modernizing legacy applications

Mr. Rajarajan Sundaramoorthy, **Senior Vice President- Devops, Zealogs ,Kakanad, Kerala** delivered a session on application modernization, highlighting its importance in today's digital world. Presentations addressed the challenges and risks associated with legacy systems and showcased real-world examples of organizations facing challenges due to outdated technology. Discussions focused on various modernization strategies like cloud migration and containerization.

Interpretable and Explainable AI

The online session by **Dr. A. Murugan**, **Department of Electronics and Communications Engineering, NIT-Silchar, Assam** explored the importance of interpretable and Explainable AI (XAI) techniques. Through presentations and discussions, attendees gained insights into the challenges, methods, and applications of XAI in analyzing complex datasets, particularly in domains where transparency, trust, and accountability are critical.

Closing remarks of nCADSIT'24

One of the highlights of this Conference was the collaboration CSIR-CSIO, Chennai chapter. This partnership brought an exciting dimension to the event, offering attendees the chance to learn from experts in the field. This conference became a unique event focusing on recent developments in scientific algorithms, advanced software tools, and novel approaches in different domains. This brings together the latest technology advancements and practical examples to apply data analytics to solve business and societal challenges.



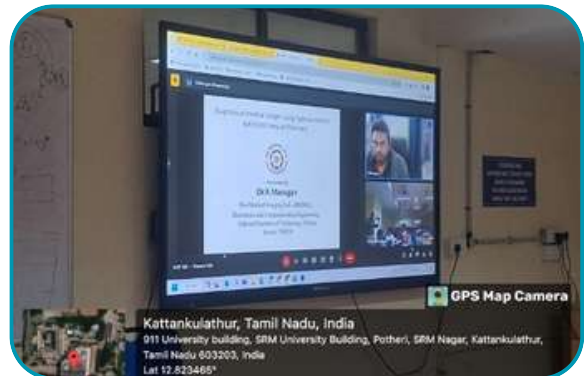
National Conference on Recent Advances of Data Science in Instrumentation Technology" (nCADSIT '24)

DATA CHRONICLE

22nd 23rd Jan 2024

NCADSIT '24

Glimpses of nCADSIT'24



Bharat Blockchain Yatra

DATA CHRONICLE

Changing the narrative of Blockchain from Hype to Value Creation.

2nd -3rd Feb 2024



BHARAT BLOCKCHAIN YATRA

The **14th Event of the Bharat Blockchain Yatra powered by Hedera and sponsored by The Hashgraph Association** marked as a significant milestone in India's tech landscape, with a focus on Web3 and Blockchain technologies. The event was aimed to narrate India's remarkable Blockchain story, with a particular emphasis on the impact of Blockchain in the state of Tamil Nadu and its surrounding regions. Throughout the event, participants engaged in interactive sessions, gaining practical insights and knowledge about Blockchain innovation. It was a platform where like-minded individuals converged to shape the future of Blockchain, unlock new possibilities, and create a lasting impact on our economic and technological landscape. The event received an overwhelming response and more than 1200 students attended the session and the received positive feedback from attendees, acknowledging its role in enhancing understanding and enthusiasm for blockchain technology.

Eminent speakers at Bharat Blockchain Yatra

1. Mageshwar R, Project Lead, StartupTN:

Shared valuable insights on opportunities in the web 3.0 startup ecosystem.

2. Dr. Ovia Seshadri, Research Engineer, CoinDCX:

Navigated and discussed building in the Web3 landscape.

3. Murtuza Vasanwala, Product Manager, Vayana:

Explored the transformative power of Web3 in reshaping the financial landscape.

4. Govan Charan, Co-Founder, Nammatrabe:

Explored the convergence of art, technology, and culture in Web3.

5. Vignesh Babu Venkatesan, Co-Founder, DocChain.io by Print2Block:

Addressed the importance of trust infrastructure for digital documents.

6. Laya Mathikshara, Artist:

Unveiled the world of NFTs and dived into the metaverse.

7. Karthik Subramanian, Co-Founder, Kana Labs:

Presented a blueprint for building a decentralized exchange on-chain.

8. Satheesh Ananthasubramanian, Founder & CEO, Rage.Fan:

Participated in a panel discussion on navigating the transformative potential of blockchain across industries.

9. Venkatesan Anandaraj, Co-founder and CEO, RavenMail:

Brought insights to the panel discussion, intersecting realms in blockchain.

10. Prawesh K Jha, Associate Partner & Practice Leader - Blockchain Services, IBM Consulting:

Shared expertise in blockchain-powered generative AI governance.

11. Sairam Santharam, Cybersecurity Advisor & cCISO Leadwall.

Delivered insights on securing the future with trust infrastructure for digital documents.

12. Ritesh Kant, CEO, wowTalkies:

Participated in the panel discussion on transformative potential across industries.

Bharat Blockchain Yatra

DATA CHRONICLE

Changing the narrative of Blockchain from Hype to Value Creation.

2nd -3rd Feb 2024

BHARAT BLOCKCHAIN YATRA



Eminent speakers at Bharat Blockchain Yatra

13. Yashodhan Ramteke, Blockchain and ESG Advisor, Meta Materials Circular Markets (MMCM):

Capturing dMRV on Hedera/Blockchain and Tokenising the Carbon Savings.

14. Rajesh Suguru, Chief Executive Officer, DIGITAL DISRUPTION TECHNOLOGIES:

Explored the possibilities of blockchain across boundaries.

15. Prahalad Santhanakrishnan, Founder & CEO, ZyenaLABS & Safeverse:

Shared insights into integrating decentralized technologies into educational gaming.

16. Srivatsan S, Founder, Deaf Artists NFT Collective:

Unveiled the crucial role of inclusivity in Web3 and NFTs.



This is a collaborative effort made by Blockchain Technology specialization of Data Science and Business systems department along with Information Data Systems for organizing this enlightening event. The Hashgraph Association powered by Hedera generously supported as the Headline sponsor. Together, progress continues to be made for transformative advancements in technology.

A Session on Awareness about Overseas education - IDP

DATA CHRONICLE

17th Feb 2024



IDP Education, the global leader in international education conducted a education fair at SRM Institute of Science and Technology on February 17, 2024. With a rich legacy spanning over five decades, IDP has been a trusted partner for students aspiring to study abroad, offering an extensive network of opportunities in renowned countries such as Australia, the UK, the USA, New Zealand, Canada, and Ireland.

The Education fair promises to be a comprehensive hub for students eager to pursue their academic aspiration overseas. Attendees will have the invaluable opportunity to engage with representatives from prestigious institutions, gaining profound insights into diverse courses, application procedures, offer letters, visa protocols, scholarships, and pre-departure orientations.

Notably, IDP Education is the exclusive proprietor of the IELTS exam, a globally recognized English proficiency assessment. This distinction has established IDP as an immensely credible name in the sphere of international education.



Trinity Hackathon

DATA CHRONICLE

20th Feb 2024



The Trinity Hackathon organized by the Student's Association of Data Science and Business Systems in collaboration with industry experts from Trinity Life Sciences held on February 20, 2024 at SRMIST, KTR. This prestigious event showcased the exceptional talent and creativity of our students. The event also underscored the collaborative synergy between academia and industry, setting new standards for excellence and innovation.

Special recognition goes to Dr. M. Lakshmi, Professor and Head of the Department, for her instrumental support. The insights, depth of knowledge, and experience of our esteemed chief guests from **Trinity Life Sciences: Vinoth Asokan, Arvind Balaji Gunasekaran, Kishore, and Rajarajan** provided invaluable learning opportunities for all participants, marking a memorable moment of the hackathon.

Our DSBS students' Association Coordinators and faculty members Dr. J. Jeba Sonia, Dr. R. Anita Jasmine, and Dr. T. Karthick, have been the driving force behind this event, guiding and motivating students toward achieving new heights of creativity and problem-solving.

The participants, with their zeal and innovation, were the essence of the hackathon, with the winners setting new benchmarks for excellence.



Innofusion 2024

DATA CHRONICLE

22nd -23rd Feb 2024



Innofusion 2024, a hackathon organized by the Student's Association of Data Science and Business Systems at SRMIST, KTR on 22nd-23rd February 2024 showcased a convergence of minds and technology to address real-world challenges. With a focus on harnessing the power of AI across sectors like Precision agriculture, Healthcare, and energy, alongside exploring disruptive technologies aligned with the Sustainable Development Goals (SDGs). It offered students an opportunity to demonstrate their programming and data analytics skills, crafting innovative solutions.



Dr. M. Lakshmi, Professor and Head of the Department, and Dr. G. Vadivu, Professor at DSBS, played pivotal roles in guiding the participants towards problem-solving. Guests of Honour, including **Ms. Anline and Mr. Jesu Godwin**, added value to the event.

DSBS Association Coordinators and faculty members Dr. T. Karthick, Dr. Panimalar.K, Dr. Jayaraj, Dr. J. Jeba Sonia, and Dr. R. Anita Jasmine, provided essential support and guidance.



The participants' enthusiasm and innovative solutions set unprecedented standards of excellence, making Innofusion 2024 a testament to collaboration, innovation, and the pursuit of excellence within the SRM Institute of Science and Technology community.



Ransomware attacks

DATA CHRONICLE

29th Feb 2024



A WORKSHOP ON RANSOMWARE ATTACKS

The Department of Data Science and Business Systems in collaboration with the **Tamil Nadu Police Cybercrime Wing** organized a workshop on **Ransomware attacks** on February 29, 2024 at SRM Institute of Science and Technology. The workshop aimed to equip the personnel of the TN Police Cyber Crime Wing with the necessary skills to combat the growing threat of ransomware. Tr. Basil Srinivasan, DSP, Cyber Crime Wing, emphasized that training police cybercrime personnel for ransomware is a proactive measure to enhance cybersecurity, safeguard critical infrastructure, and ensure the safety of the community in an increasingly digital world.

Ms. D.M. Dheepika, Sub-Inspector (Technical) of the Cyber Crime Wing, graced the occasion. Professors from SRM Institute of Science and Technology, including Prof. Revathi Venkataraman, Chairperson of the School of Computing, Dr. M. Lakshmi, Head of the Department of Data Science and Business Systems, Dr. Annapurani Palaniappan K, Head of the Department of Networking and Communications, and Dr. S. Ganesh Kumar, Program Coordinator of Blockchain Technologies, were also present during the event. The workshop sessions were conducted by professors specializing in Cyber Security. Over 30 police officials across Tamil Nadu participated in the workshop.



Nandivaram



Placement Enhancement Program

DATA CHRONICLE

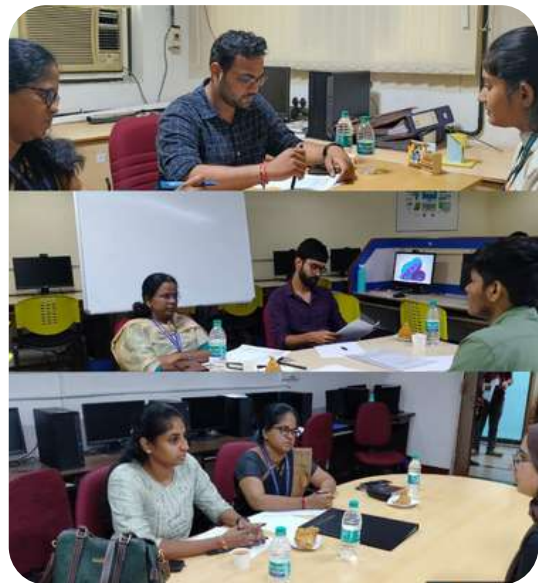
2nd March 2024



PLACEMENT ENHANCEMENT PROGRAM

Placement Enhancement Program - PEP - series 1 organized by the Alumni Chapter of DSBS in collaboration with the Directorate of Alumni Affairs held on March 2, 2024 at University Building-SRMIST,KTR. The essence of the series is to bring the expertise of the alumni to help their juniors in academics and placement activities. This event focused on providing a better understanding to the students in terms of resume preparation, placement session participation, and training. The mock session has opened a window for the current peers to interact with alumni.

The session helped us judge the training facilities that are to be provided to the students. The alumni's suggestions and feedback about the students whom they interviewed provided a better training plan. The time spent by the alumni showed their interest in sharing their expertise with Alma mater



Hands-on Training in TCP /IP And DHCP

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2nd March 2024



TRAINING IN TCP /IP AND DHCP

A successful workshop on Client-Server Socket Connections was held on 2nd March 2024 attracting 60 participants eager to delve into this crucial communication technology. The session was led by **Dr. T. Russo, Project Manager at Cognizant Technology Solutions**, who shared his expertise and insights on the topic.

Dr. Russo kicked off the workshop by establishing a solid foundation for participants. He explained the fundamentals of client-server architecture, highlighting the roles and responsibilities of each component. He elaborated on how clients initiate communication requests, servers process them, and responses are relayed back, enabling real-time data exchange between applications.

The heart of the workshop focused on Client-Server Socket Connections. Dr. Russo explored the concept of sockets, the virtual ports allowing communication between processes on a network. He explained the different socket types – stream sockets for continuous data flow (like TCP) and datagram sockets for message-based communication (like UDP).

- Participants gained a solid understanding of Client-Server architecture and socket communication.
- They acquired knowledge of establishing client-server connections using socket programming techniques.
- Dr. Russo's insights into the latest research trends provided valuable knowledge for future endeavors in network programming.
- With the ability to communicate with servers in real-time, participants can now explore building dynamic and interactive applications.



Celebrating Womanhood

6th March 2024



CELEBRATING WOMANHOOD

The Department of DSBS and ACM W-Students chapter organized a series of events with the theme - "Celebrating Womanhood" as a preview event for International Women's Day on March 6, 2024. The chief guest for this event is Ms. Priya Jemima, Entrepreneur & NGO – GEO INDIA.



The event started with the special address by Prof. M. Lakshmi, Head of the Department of Data Science and Business Systems. Following, Ms Priya Jemima inspired the audience with her thought-provoking talk. She stressed the need for women supporting one another and setting clear boundary in relationships. She presented real case studies that her NGO involved to promote young girls' safety and protection.



LAYER'24

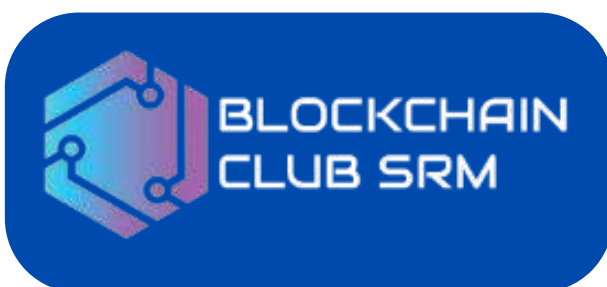
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11th - 12th March 2024



Layer is a **hackfest event** organized by **Blockchain Club SRM**, aiming to connect keen enthusiasts and upcoming developers to leading industry professionals in the blockchain and web3 ecosystem. Blockchain Club SRM, the largest Indian student-led web3 community, proudly presents Layer, a 24-hour hybrid (online + remote) hackathon. The event comprised engaging sessions by industry mentors on Tuesday, fostering knowledge exchange.

The hackathon created an atmosphere of collaboration and endurance. As it unfolds, the club's vision to foster a vibrant web3 community, where participants can learn as well as actively contribute to shaping a blockchain-powered ecosystem became reality.



International Academicians Visit

DATA CHRONICLE

8th & 10 March 2024



PROF RAJ SRINIVAS

Prof. Raj Srinivasan and Prof. Venkatesh Meda - Two eminent professors from University of Saskatchewan visited SRMIST recently during March 2024. They interacted with students, Faculty members and Research scholars. Awareness about higher studies were given to the students during this visit.

Prof. Raj Srinivasan belongs to Department of Mathematics and Statistics, College of Arts and Science, University of Saskatchewan visited SRMIST on March 8, 2024. Prof. Srinivasan holds an esteemed international reputation for his expertise in Applied Probability and Stochastic Modelling, particularly in the utilization of queuing network models for the performance evaluation of telecommunication networks. He has given a session to undergraduate students to regarding the higher study opportunities in abroad as well as avenues to enhance research collaboration between our institutions.



PROF MEDA

Professor Dr. Meda, Department of Chemical and biological Engineering at the University of Saskatchewan, Saskatoon, Canada. His main research focus is oriented on "Post-harvest value-added processing of food / biomaterials using novel technologies". He visited SRMIST on March 10, 2024.

He interacted with several faculty members, Higher officials and discussed about various research Prospectives that are possible between SRM and Saskatchewan University

IEEE SMC student society chapter

DATA CHRONICLE

11th - 12th March 2024



IEEE SMC STUDENT SOCIETY CHAPTER

The **inauguration ceremony of the IEEE Systems, Man, and Cybernetics Society (SMC) chapter**, held in the Department of Data Science and Business Systems, School of Computing, SRM IST, Kattankulathur, was a resounding success! Dr. S. Brindha, IEEE SB Counselor and Professor of the ECE department at Sri Sairam Engineering College, not only enlightened us with insightful discussions on IEEE activities but also announced the student members.

Dr. Dr. Brindha Saminathan who holds esteemed positions such as Chair of SAC IEEE Madras Section (MAS), IEEE SB Counselor at Sri Sairam Engineering College, Chairman of VTS at IEEE MAS, and Vice-Chairman of SPS at IEEE MAS, showcased the immense opportunities IEEE offers for students and professionals alike. Following her inspiring words, **Mr Harun Rashed Basheer, Data Engineer at Hitachi Solutions**, captivated us with his expertise on generative AI, showcasing the transformative potential of this cutting-edge technology.

The inaugural ceremony happened with the gracious presence of Dr. M. Lakshmi, HOD/DSBS, Dr. K.Priyadarsini, Associate Professor & IEEE SMC Student Branch Advisor, and Dr. Jeba Sonia J, Assistant Professor.

We are proud to announce that the IEEE SMC chapter is started in the Department of DSBS, School of Computing, SRMIST, Kattankulathur.



The event was filled with enthusiasm, collaboration, and a shared passion for technology and innovation. We extend our heartfelt thanks to all our esteemed guests, speakers, and attendees for making this event a memorable one.

INAUGURAL OF

The Industry- Academia
connect event

DATA CHRONICLE

22nd March 2024



The **industry-academia connect** event facilitated a profound understanding of cutting-edge developments in drug discovery, personalized medicine, and genetic programming, fostering insightful discussions and presentations. Attendees leveraged networking opportunities to expand their professional circles, while students and early-career professionals honed practical skills and gained industry insights. Knowledge sharing among experts fostered a culture of collaboration, while success stories and innovative approaches inspired participants, fueling their drive for excellence in advancing pharmaceutical research and innovation.

The event's core focus was on fostering collaboration between academia and industry. This engagement aims to drive innovation in pharmaceuticals through joint projects and grant proposals. The event facilitated networking opportunities, allowing established professionals to expand their circles and students/early-career individuals to gain valuable industry insights. Knowledge sharing among experts created a vibrant collaborative environment, while success stories and innovative approaches inspired participants to excel in pharmaceutical research.



The event boasted an impressive speaker lineup, featuring prominent figures from both academia and industry. **Gauravbir Dogra (Pfizer)**, **Anitha Cecelia (Cognizant)**, **Padmanaban Sambatkumar (IQVIA)**, **Mahesh Iyer (Pfizer)**, and **Nishanth Nalan (ACL Digital)** shared their expertise. The discussions were moderated by **Jagadish Suriyanarayanan (ICON)** and **Jayapandian Nagamalaiyan (Symbiance)**, while panelists like **Dr. G. Vadivu (SRM Institute of Science and Technology)**, **Parthiban S D (Global Value Web)**, **Rajalakshmi Srinivasan (Zoho Corporation Pvt. Ltd.)**, **Dr. Solomon F.D. Paul (Sri Ramachandra Medical College and Research Institute)**, and **Srinivasa Raghavan R (ACL Digital)** enriched the discourse with their diverse perspectives. Additionally, interns like **Nathiya N (Algorics)**, **Phanindra Kumar Madamala (Symbiance)**, **Surabhi Chaudhari (Pfizer)**, and **Vibin M (ACL Digital)** brought a fresh perspective to the conversation.

The Industry- Academia connect event

DATA CHRONICLE

22nd March 2024

This engagement spurred collaborative initiatives, igniting new partnerships and research ventures between academia and industry, aimed at driving innovation in the pharmaceutical sector through joint projects and grant proposals. Attendees leveraged networking opportunities to expand their professional circles, while students and early-career professionals honed practical skills and gained industry insights.



PANEL DISCUSSION



PEOPLE OF DSBS – FACULTY ACHIEVEMENTS



Dr. A. Shanthini
Associate Professor

Dr.A.Shanthini

Resource Person

- Delivered a Tech talk on the topic “ Machine learning and its applications” in a Faculty Development Program organized by the Department of Computational Intelligence at Saveetha University on 29.01.2024.



Dr.K.S.Archana
Assistant Professor

Dr.K.S.Archana

Resource Person

- Session Chair – Dr.M.G.R. Educational and Research Institute in 9th National Conference on Innovative Computing Techniques on 19.04.2024



Dr. S. Suchitra
Associate Professor

Dr.S.Suchitra

Resource Person

- Delivered a guest lecture on “Role of Data Science in Industry and in Academia” organized by the Department of Information Technology at SRM Valliammai Engineering College on 31/01/2024.



Dr. S. Sharanya
Associate Professor

Dr.S.Sharanya

Resource Person

- Delivered key note address for the National Conference "Advanced Computational Intelligence & Disruptive Technologies" organized by the Department of Computer Science with Data Analytics on 06.03.2024 at PSG College of Arts & Science, Coimbatore



Dr.R.Rajkumar
Associate Professor

Dr.R.Rajkumar

Resource person

- Keynote Speaker for International Kanitamil Conference-Govt of TN
- Jury award in Sci-Edu awards, Tamil Virtual Academy, Chennai
- Jury Member for Science Expo- American India Foundation, Armbakkam Govt School.
- Panel Discussion on Tamil computing for All India Radio, Ministry of Information and Broadcasting.
- Chief Guest for valedictory -Vels international school, Injambakkam.
- Keynote Speaker for International Conference on “Futuristic workspace: "Exploring digital transformation & innovation in the corporate realm"at Stella Maris College.

PEOPLE OF DSBS – FACULTY ACHIEVEMENTS



Dr. T. Veeramakali
Associate Professor

Dr. T. Veeramakali

Resource Person

- Delivered a talk on "Unlocking AI's Potential: Emerging Technology", online Students Development Program organized by the Department of Computer Science and Engineering, Sathyabama Institute of Science and Technology on 19.03.2024.



Dr. M. Geetha Jenifel
Assistant Professor

Dr. M. Geetha Jenifel

Resource Person

- Resource person in the 5 days FDP on "Teaching, Learning and Research Methodology" organized by Department of AI and DS, St. Xavier's Catholic College of Engineering conducted from Feb 12 -16, 2024
- Resource person for the FDP on Innovative Pedagogies in Teaching, organized by Government arts and Science College for Women, Sathankulam and conducted from March 3- 9, 2024



Dr. P. Kanmani
Assistant Professor

Dr. P. Kanmani

Resource Person

- Delivered a talk on "Blockchain AI Integration in Healthcare" as part of the CSIR sponsored National level workshop on "Regulatory challenges and opportunities for Blockchain AI integration in Healthcare" organized by the Department of Computer Science and Engineering, Vivekananda college of Engineering for women on 14.03.2024.



Dr. Vijayalakshmi.V
Assistant Professor

Dr. Vijayalakshmi.V

Resource Person

- Demonstrated machine learning algorithms on landsat satellite images using Google Earth Engine in 6 Days National Workshop on Technology Interchange and Development in Earth Science using Artificial Intelligence conducted from March 3- 9, 2024



Dr. P. Suthanthiradevi
Assistant Professor

Dr. P. Suthanthiradevi

Resource Person

- Resource person for an event "Pythonista" in a Student Development Program" at Sathyabama Institute of science and technology



Dr. J. Jeba Sonia
Assistant Professor

Dr. J. Jeba Sonia

Resource Person

- Guest lecture on "Useful tools for Quality research" in the National level world record daily webinar series, organized by Shri Kumaraswami Mahavidyalaya, AUSA, India

Kani Tamil 24

International Tamil Computing Conference



DSBS TEAM WITH MEDICAL COLLEGE TEAM



The Kani Tamil 24 International Conference convened as a vibrant platform showcasing collaborative projects within the realm of Audiology and Speech Language Pathology. With a multidisciplinary approach, the conference aimed to foster dialogue, exchange insights, and propel advancements in these critical fields. Several projects from DSBS were exhibited in the conference.

- Aural Rehabilitation for Children in Tamil funded by IEEE EPICS**
 ASL Pathology faculty : Mrs. J Praveena.
 ASL Pathology Student : Ms. T. Shanthini.
 DSBS faculty: Dr.R.Rajkumar.
 DSBS Student: Mr. Rupan Nag, B.Tech(GT).
- Test Tool for Naming in Tamil – An E-test tool for assessing word retrieval impairment in the elderly.**
 DSBS Team: Dr. Lakshmi M, Dr. Srividhya, Dr Veeramakali and Dr. Shobhanadevi
 DSBS Student: Mr.Vaibhav Raj [III year B.Tech CSE (BDA)]
 ASL Pathology : Ms. C. Elanthendral
- Keynote address on An Immersive Journey: Tamil Epic Poetry Silapathikaram Stepping into Metaverse by Dr. R. Rajkumar. Co-Authored by Antony Sam Jaiton, B.Tech CSE (GT)**



SCI PUBLICATIONS

- **T. Nadana Ravishankar**, "Advancing fetal ultrasound diagnostics: Innovative methodologies for improved accuracy in detecting Down syndrome," Medical Engineering and Physics, **IF: 2.2, SCI.**
- **D. Rajeswari**, "Cost-Effective digital twin Design for entertainment Enterprise's through Machine learning," Entertainment Computing, **IF: 2.8, SCI.**
- **Dr. Kavitha V**, "VLC-based DCO-OFDM and WSN in hospitals for medical information transmission," Journal of Optics, **IF: 1.8, SCI.**
- **Dr. N. Manikandan**, "Efficient resource allocation in heterogeneous clouds: genetic water evaporation optimization for task scheduling," Signal, Image and Video Processing, **IF: 2.3, SCI.**
- **Dr. A. Chinnasamy**, "Detecting the symptoms of COVID-19 during pandemic environment using smart spectacle thermal images and deep capsule networks," Multimedia Tools and Applications, **IF: 3.6, SCI.**
- **Dr. Prabhu Kavın B**, "A Novel Eccentric Intrusion Detection Model Based on Recurrent Neural Networks with Leveraging LSTM," Computers, Materials & Continua, **IF: 3.1, SCI.**
- **Dr. Prakash M**, "BGNBA-OCO based privacy preserving attribute based access control with data duplication for secure storage in cloud," Journal of Cloud Computing: Advances, Systems and Applications, **IF: 3.418, SCI.**
- **Dr. Sasikumar**, "MSR U-Net: An Improved U-Net Model for Retinal Blood Vessel Segmentation," IEEE Access, **IF: 3.9, SCI.**
- **Dr. Sasikala E**, "An attention-based dense network model for cardiac image segmentation using learning approaches," Soft Computing, **IF: 4.1, SCI.**
- **Dr. Prabhu Kavın B**, "CROA-based feature selection with BERT model for detecting the offensive speech in Twitter data," Journal of Autonomous Intelligence, **IF: 0.166, SCOPUS.**
- **Dr. S. Nandhini**, "An efficient optimal hybrid SVELM based monitoring and forecasting the engine operations for safety standards," Expert Systems With Applications, **IF: 8.5, SCI.**
- **Dr. Sasikumar**, "Cerium-modified TiO₂/g-C₃N₄ nanocomposites with synergistic effect on enhancing visible-light photocatalytic activity employing cationic dyes," Colloids and Surfaces A: Physicochemical and Engineering Aspects, **IF: 5.2, SCI.**
- **Dr. Sasikumar**, "Enhancing enterprises trust mechanism through integrating blockchain technology into e-commerce platform for SMEs," Egyptian Informatics Journal, **IF: 5.2, SCI.**
- **Dr. Sasikumar**, "Blockchain-Assisted Hierarchical Attribute-Based Encryption Scheme for Secure Information Sharing in Industrial Internet of Things," IEEE Access, **IF: 3.9, SCI.**
- **Dr. S. Ganesh Kumar**, "An efficient quantum non-interactive zero knowledge proof for confidential transaction and quantum range proof," Multimedia Tools and Applications, **IF: 3.6, SCI.**

SCI PUBLICATIONS

- **Dr. R. Jayaraj**, "Advanced model based machine learning technique for early stage prediction of ankylosing spondylitis under timely analysis with featured textures," Multimedia Tools and Applications, **IF: 3.6, SCI.**
- **Dr. Kavitha V**, "Transmitting patient's health care information using LEDs in hospitals through VLC technology," Journal of Optics, **IF: 1.8, SCI.**
- **Dr. Manikandan Nanjappan** and **Dr. G. Premalatha**, "DeepLG SecNet: utilizing deep LSTM and GRU with secure network for enhanced intrusion detection in IoT environments," Cluster Computing, **IF: 4.4, SCI.**
- **Dr. Rehash Rushmi Pavitra A**, "REAL-TIME INDOOR ENVIRONMENT QUALITY MONITORING FOR VEHICLE CABIN," Environmental Engineering and Management Journal, **IF: 1.1, SCI.**
- **Dr. C. Tamizhselvan**, "Cloud data access governance and data security using distributed infrastructure with hybrid machine learning architectures," Wireless Networks, **IF: 3, SCI.**
- **Dr. A. Murugan**, "Workflow scheduling and optimization using evaluatory method and deep learning algorithm in cloud," Multimed Tools Applications, **IF: 3.6, SCI.**
- **Dr. D. Prabakar**, "Spectral energy balancing system with massive MIMO based hybrid beam forming for wireless 6G communication using dual deep learning model," Heliyon, **IF: 4, SCI.**
- **Dr. Karthick T**, "Secure multimedia communication: advanced asymmetric key authentication with grayscale visual cryptography," Mathematical Biosciences and Engineering, **IF: 2.6, SCI.**
- **Dr. N. Manikandan**, "DeepLG SecNet: utilizing deep LSTM and GRU with secure network for enhanced intrusion detection in IoT environments," Cluster Computing, **IF: 4.4, SCI.**
- **Dr. T. Ragupathi**, "Computational Biomedical Framework Using IoT and MR for Detecting, Tracking and Preventing Asymptomatic COVID-19 Patients," International Journal for Multiscale Computational Engineering, **IF: 1.4, SCI.**
- **Dr. Sasikala E**, "IFM-RCNN: a hybrid text classifier with enhanced performance of binary drug classification from tweets using improved faster mask-recurrent convolutional neural network," Knowledge and Information Systems, **IF: 2.7, SCI.**
- **Dr. S. Ganesh Kumar**, "An efficient geometric octal zones distance estimation and attribute-based encryption for secure transfer of sensitive data," Telecommunication Systems, **IF: 2.5, SCI.**
- **Dr. A. Shobana Devi**, "Deep learning-based route reconfigurability for intelligent vehicle networks to improve power-constrained using energy-efficient geographic routing protocol," Wireless Networks, The Journal of Mobile Communication, Computation and Information, **IF: 3, SCI.**

SCOPUS PUBLICATIONS

- **Dr. A. Chinnasamy**, "Diabetic Retinopathy Imaging: Network Exudate Detection to Classify Abnormalities," in 2023 Intelligent Computing and Control for Engineering and Business Systems (ICCEBS). **SCOPUS**.
- **Dr. A. Chinnasamy**, "IoT Smart City Air Quality Monitoring System Using Arduino," in 2023 Intelligent Computing and Control for Engineering and Business Systems (ICCEBS). **SCOPUS**.
- **Dr. S. Suchitra**, "Estimation of Crowd Density in Surveillance Scenes Based on Deep Learning Techniques," in 2023 Intelligent Computing and Control for Engineering and Business Systems, ICCEBS 2023. **SCOPUS**.
- **Dr. Sasikala E**, "Modelling Mobile-X Architecture for Offloading in Mobile Edge Computing," Intelligent Automation & Soft Computing, **IF: 0.734, SCOPUS**.
- **Dr. Sasikala E**, "Deep Reinforcement Learning algorithms for Low Latency Edge Computing Systems," in 2023 3rd International conference on Artificial Intelligence and Signal Processing (AISP). **SCOPUS**.
- **Dr. Divya G**, "A Deep Learning Based Methodological Analysis for Breast Cancer Classification," International Journal of Electronics and Communication Engineering, **SCOPUS**.
- **Dr. K. Shantha Kumari**, "Multi-modal Sentiment Analysis Using Text and Audio for Customer Support Centers," in Lecture Notes in Networks and Systems. **SCOPUS**.
- **Dr. K. Shantha Kumari**, "CNN—A Conceptual Framework for Duplicate Removal in Big Data Using Quality Assured Crowd Sourcing Coupled with Neural Networks," in Lecture Notes in Networks and Systems. **SCOPUS**.
- **Dr. P. Kanmani**, "Trustworthy Web Service-Business Activities (WSBA) using an Efficient Byzantine Fault Tolerance Algorithm," in IEEE digital Conference. **SCOPUS**.
- **Dr. G. Premalatha**, "Feature selection for predicting bankruptcy: Comparative analysis," in International Conference on Electronics, Communication and Computing Technologies (ICECCT). **SCOPUS**.
- **Dr. K. S. Archana**, "Smart Home Based on IoT by Using Machine Learning," in Lecture Notes in Networks and Systems. **SCOPUS**.
- **Dr. P. SuthanthiraDevi**, "CNN-LSTM: Development of Offline Signature Authentication," in IEEE International Conference on Emerging Research in Computational Science - **ICERCS'23. SCOPUS**.
- **Dr. R. Jayaraj**, "Intrusion detection based on phishing detection with machine learning," Measurement: Sensors, **SCOPUS**.
- **Dr. A. Syed Ismail**, "Harnessing Deep Neural Networks for Micro-Blog Sentiment Analysis: A Novel Approach," in 2023 International Conference on Sustainable Communication Networks and Application (ICSCNA). **SCOPUS**.
- **Dr. S. Venkatesh**, "Data Reduction Techniques in Wireless Sensor Networks with Internet of Things," International Journal of Intelligent Systems and Applications in Engineering, **SCOPUS**.
- **Dr. S. Venkatesh**, "Securing Data in Images Using Cryptography and Steganography Algorithms," International Journal of INTELLIGENT SYSTEMS AND APPLICATIONS IN ENGINEERING, **IF: 0.342, SCOPUS**.

SCOPUS PUBLICATIONS

- **Dr. R. Jayaraj**, "A New Integrated Approach for Cloud Service Composition and Sharing Using a Hybrid Algorithm," Mathematical Problems in Engineering, **IF: 0.578, SCOPUS.**
- **Dr. Rehash Rushmi Pavitra A**, "Research Review Inquisitive on Indoor Air Quality Monitoring System Facilitate with Internet of Things," E3S Web of Conferences, **IF: 0.213, SCOPUS.**
- **Dr. Ramprasath M**, "Enhanced study on Deep learning model for kidney segmentation using DCE-MRI," in 2023 International Conference on Research Methodologies in Knowledge Management, Artificial Intelligence and Telecommunication Engineering (RMKMATE). **SCOPUS.**
- **Dr. Prakash M**, "A modelling analysis to predict the traffic using K-NN algorithm," in Artificial Intelligence, Blockchain, Computing and Security. **SCOPUS.**
- **Dr. Prakash M**, "CryptoASCII - ASCII based cryptosystem for cloud data storage," in Artificial Intelligence, Blockchain, Computing and Security. **SCOPUS.**
- **Dr.S. Sharanya**, "Protectors of the Android Domain: Research into Mobile Malware Detection and Defense," International Journal of Systems and Applications in Engineering, **IF: 0.342, SCOPUS.**
- **Dr.S. Sharanya**, "Challenges in 5G Building Sustainable Networks and Its Opportunities," in Resource Management in Advanced Wireless Mobile Networks. -
- **Dr. T. Ragupathi**, "Detection of DDOS Attacks in Cloud Environment Using Deep Learning," in 2023 International Conference on System, Computation, Automation and Networking (ICSCAN). **SCOPUS.**
- **Dr. T. Ragupathi**, "Heart Disease Prediction Using Linear Regression Techniques," in 2023 International Conference on System, Computation, Automation and Networking (ICSCAN). **SCOPUS.**
- **Dr. T. Ragupathi**, "Securing IoT-Based Home Automation Systems Through Blockchain Technology: Implementation," in 2023 International Conference on System, Computation, Automation and Networking (ICSCAN). **SCOPUS.**
- **Dr. T. Ragupathi**, "Smart Parking and Parking Guidance Using ECNN Algorithm in Convolution Neural Network," in 2023 International Conference on System, Computation, Automation and Networking (ICSCAN). **SCOPUS.**
- **Dr. G. Premalatha**, "A Machine Learning Strategy for Reducing Childhood Obesity Using Millet," in 2023 9th International Conference on Smart Structures and Systems (ICSSS). **SCOPUS.**
- **Dr. Prabhu Kavın B**, "Single and multi-crop species disease detection using ITSO based gated recurrent multi-attention neural network," Journal of Autonomous Intelligence, **IF: 0.166, SCOPUS.**
- **Dr. Prabhu Kavın B**, "Enhanced Network Intrusion Detection System Using PCGSO-Optimized BI-GRU Model in AI-Driven Cybersecurity," in 2024 IEEE 3rd International Conference on AI in Cybersecurity (ICAIC). **SCOPUS.**
- **Dr. Prabhu Kavın B**, "CROA-based feature selection with BERT model for detecting the offensive speech in Twitter data," Journal of Autonomous Intelligence, **IF: 0.166, SCOPUS.**

PATENTS GRANTED

- **Dr. Shobana J and Dr. A.V. Kalpana.** "OT-Based Food Burner Stove." Granted. Date: 5/3/24. Application No: 405648-001.
- **Dr. A. Murugan and Dr. Ganesh Kumar.** "A User-Centric System for Printing Documents and a Method Thereof." Granted. Date: 14/3/24. Application No: 202041046138. Patent No: 525405.
- **Dr. K. Arthi and Dr. S. Suchitra.** "IoT Based Cutting Machine for Agricultural Purpose." Granted. Date: 14/3/24. Application No: 405973-001.
- **Dr. Prabhu Kavın B.** "IoT Based Device for Measuring Sugar Level." Granted. Date: 15/3/24. Application No: 404949-001.
- **Dr. Prabhu Kavın B.** "IoT Based Automatic Robotics Waste Bin." Granted. Date: 15/3/24. Application No: 403729-001.
- **Dr. S. Srividhya.** "A System and a Method for Forest Fire Prediction and Mitigation." Granted. Date: 15/3/24. Application No: 202241051558. Patent No: 528028.
- **Dr. Kavitha V and Dr. Prasanna V.** "AI Based Wearable Social Distance Alerting Device." Granted. Date: 22/3/24. Application No: 402793-001.
- **Dr. Sasikala E and Dr. Radha.** "A Handheld Device for Diabetes Detection." Granted. Date: 24/1/24. Application No: 201741030246. Patent No: 503025.
- **Dr. S. Venkatesh.** "IoT and ML Based Smart Grid for Renewable and Sustainable Energy Management." Granted. Date: 4/1/24. Application No: 398957-007.
- **Dr. A. Murugan.** "A Toll Collection System and a Method Thereof." Granted. Date: 2/2/24. Application No: 201841016283. Patent No: 506756.
- **Dr. A. Shobana Devi.** "Method and Device for Predicting Psychotic Disorders." Granted. Date: 22/2/24. Application No: 201941013151. Patent No: 513930.
- **Dr. Kalpana A V.** "Wearable Electronic Device for Visually Impaired People." Granted. Date: 29/1/24. Patent No: 6338377.
- **Dr. Sornalakshmi K.** "A Two-Way Communication Device for a Disabled Person and a Method Thereof." Granted. Date: 8/4/24. Application No: 202041043050. Patent No: 532223.
- **Dr. Shobana J.** "Machine Learning Based Mobile Jammer." Granted. Date: 17/1/24. Patent No: 6337714.
- **Dr. N. Manikandan.** "Machine Learning Based Confidence Tracking Device of the Employee." Granted. Date: 10/1/24. Application No: 397422-001.



CONGRATS

POST DOCTORAL FELLOWSHIP

Dr. J. Jeba Sonia



Washington State University, Vancouver, United States

Title: Personalized Health Care Monitoring with Internet-of-Things

PATENTS PUBLISHED

- **Dr. Shobana J.** "Method and System for Dynamic Resource Allocation and Optimization in IoT Networks Using Heuristic Algorithms." Published. Date: 8/3/24. Application No: 202441013204 A.
- **Dr. Kalpana A V.** "Adaptive Neural Network Architecture for Real-Time Anomaly Detection in Dynamic Environments." Published. Date: 9/2/24. Application No: 202441004950 A.

BOOK CHAPTERS

- **Dr. Kalpana A. V., Dr. J. Shobana, Dr.K.Arthi.** "Using Real-Time Data and AI for Thrust Manufacturing" in Real-Time Applications of Artificial Intelligence Technology in Daily Operations. Publisher: IGI Global. ISBN: 9798369326152. Published Month: March, 2024.
- **Dr. A. V. Kalpana, Dr. S. Suchitra, Dr. Ram Prasath, Dr. K. Arthi, Dr. J. Shobana, Dr. T. Nadana Ravishankar.** "Dual-CNN-Based waste classification system using IoT and HDS algorithm" in Computational Intelligence for Green Cloud Computing and Digital Waste Management. Publisher: IGI Global. ISBN: 9798369315521. Published Month: February, 2024.
- **Dr. Prabhu kavin B.** "Sustainable waste management OOA-Enhanced MobileNetV2-TC model for trash image classification" in Computational Intelligence for Green Cloud Computing and Digital Waste Management. Publisher: IGI Global. ISBN: 9798369315521. Published Month: February, 2024.
- **Dr. Kalpana A. V.** "3D Localization in the Era of IIoT by Integrating Machine Learning With 3D Adaptive Stochastic Control Algorithm" in Using Real-Time Data and AI for Thrust Manufacturing. Publisher: IGI Global. ISBN: 9798369326152. Published Month: March, 2024.
- **Dr. A. Shobana Devi, Dr. T. Veeramakali.** "Object Oriented Programming." Publisher: Scientific International Publishers. ISBN: 978-93-6132-722-3. Published Month: March, 2024.



CONGRATS
RESEARCH DAY GOLD MEDALIST

Dr. M.Geetha Jenifel

Secured Gold Medal for the Technical paper
presented for Research Day held on 04-03-2024 at
SRM-KTR

FACULTY UPSKILLING

- **Dr.A.Shanthini** - Successfully completed the online course on "Basics of Remote Sensing, Geographical Information System and Global Navigation Satellite System. It was a 3 month course of 80 hrs approximately.
- **Dr.A.Shanthini, Dr T.Raghupathy, Dr.Syed Ismail, Dr.S.Venkatesh, Dr.John Deva Prasanns D S, Dr.Raj Kumar K, Dr.Varun.P** - Participated in UHV training program on 'Inculcating Universal Human Values in Technical Education' organized by UHV cell in association with AICTE between 20.01.2024 and 22.01.2024
- **Dr.A.Shanthini, Dr T.Raghupathy, Dr.Syed Ismail, Dr.S.Venkatesh, Dr.John Deva Prasanns D S, Dr.Raj Kumar K, Dr.Varun.P, Dr.Prasanna.V, Dr.Suthanthira Devi P, Dr.Rajakani.P, Dr.D.Prabakar** - Participated in Master Training Workshop on Student Career Guidance organized by Directorate of Learning and Development between 05.03.2024 and 07.03.2024.
- **Dr.P.C.Karthik** attended the Design Bootcamp 1.0 organized by Directorate of Entrepreneurship and Innovation on 19.03.204 and 20.03.2024.
- **Dr. M. Geetha Jenifel** - Participated in the AICTE Recognized Faculty Development Programme on Bigdata Analytics in Smart Grid conducted by EEE department from 12-02-24 to 16-02-24 at St. Xavier's Catholic College of Engineering, Nagercoil.
- **Dr.S.Suchitra** - successfully completed Distributed Computing with Spark SQL an online course authorized by University of California, Davis and offered through Coursera on Feb 2024.
- **Dr J.Jeba Sonia** - Successfully completed the NPTEL online course on "Introduction to Internet of Things" with ELITE & SILVER MEDAL
- **Dr J.Jeba Sonia** - Attended an one week National Level FDP on "AI Tools Prompt Engineering" from 27th November 2023 to 2nd December 2023 in ANITS, Hyderabad.
- **Dr P. Suthanthira Devi** - Successfully completed the NPTEL online course on "Database management systems"
- **Dr A.V.Kalpna** - Successfully completed the Coursera online course on "Python Data Structures"
- **Dr.A.Rehash Rushmi Pavitra** - Attended two week FDP on "Faculty Development Programme on Machine Learning " from Feb 1 to 14,2.2024 at Anna University

JOURNAL / CONFERENCE REVIEWER

- **Dr.P.Suthanthiradevi** - Reviewer for international Conference on Disruptive technologies.
- **Dr.M. Geetha Jenifel** - Reviewer in the Journal of Advanced Research in Applied Mechanics. & Journal of Research in Agriculture and Food Sciences.
- **Dr. S. Suchitra** - Reviewer for the journals Knowledge and Information Systems and Soft Computing, published by Springer and indexed in SCIE and Scopus during the period Jan 2024 to April 2024
- **Dr. T. Nadana Ravishankar** - Reviewer for International Conference on Advanced Research in Computing - ICARC 2024.
- **Dr. T. Nadana Ravishankar** -Reviewer for Technology, knowledge and learning.
- **Dr.T.Nadana Ravishankar** - Reviewer for International journal of computers for mathematical learning.
- **Dr.A.Chinnasamy** - Reviewer for a journal at IIIT, Kottaiyam, Kerala.
- **Dr.A.Shobanadevi** -Reviewer for Inter Journal of Computing and Digital Systems (IJCDs)
- **Dr.M.Rajakani** - Reviewer for International Journal of Soil and Plant Science.
- **Dr.V.Kavitha** - Reviewer for Journal of Optics
- **Dr.V.Kavitha** - Jury for International Conference held at Saveetha University
- **Dr J. Jeba Sonia** - Reviewer at International Conference on Intelligent Systems held at Amal Jyothi College of Engineering, Kanjirappally

WOMEN'S DAY CELEBRATION



DSBS MEN IN ACTION



STUDENT'S ACHIEVEMENTS

Electrum Interactive Pvt Ltd - Startup by our students

B.TECH CSE - GAMING TECHNOLOGY STUDENTS

Electrum Interactive Pvt Ltd, a student led start-up by Mr. Antony Sam Jaiton and Mr. Vijaya Raghavan, has been incubated under the Directorate of Entrepreneurship and Innovation. With the excellent facilities provided by DEI and immense support from the faculty of SRMIST, Electrum Interactive aims to make a global impact in the field of Game development and Interactive Media.



MR. ANTONY SAM JAITON



MR. VIJAYA RAGHAVAN

SRM SDG Hackathan 2023

Our heartfelt congratulations to the III yr student (BDA) from the Department of Data science and business systems (Kandukuri Sanjay Kumar - Team lead, Mohan tarun .P) and Satwik kuna (NWC), the mentors Dr. D. Prabakar and Dr. M. Ramprasath for achieving the remarkable feat of securing the cash prize (Rs 15,000) and got an internship opportunity from a NGO in SRM SDG Hackathon 2023.



Rajasthan Police Hackathon

Under the expert guidance of Dr. Manikandan and Dr. Panimalar.K III-year BCT & BDA students (Varun Singh, Abhinav Rajeev Kumar, Milind Mishra, Vidhi Singh) from Department of Data Science and Business Systems have clinched the 3rd place and 1st prize in problem statement at the esteemed Rajasthan Police Hackathon 1.0, surpassing 1665 teams! Their outstanding achievement underscores their dedication, innovation, and technical prowess. The judges were impressed by their innovative solutions, which made a significant impact on the competition.



STUDENT'S ACHIEVEMENTS

Yuva Manthan Hackathon



Our beloved DSBS students THARUN ANAND and HARSHINI won the 1st prize, Mahendravarmaa and Amulya Grace won the 2nd prize in YUVAMANTHAN HACKATHON

Best Paper Award



Presented to Mr. Pinakapani Rakshit Akash R [Final year student of CSBS] and to His mentor, Dr. J.Shobana for the paper "An Intelligent Gesture-Based Instructional Framework Utilizing Deep Learning" during the National Conference on Futuristic Computing Trends in Financial Technologies (FCOM-Fintech'24), from 29th – 30th, January 2024, organized by the Department of Computing Technologies, School of Computing, S.R.M. Institute of Science and Technology, Kattankulathur.

IET GenAI - Ideathon!

Ms. Aakanksha Yadav, B.Tech in Gaming Technology (Department of Data Science and Business Systems), on winning the Special Prize for Women in Technology at the IET GenAI Ideathon!. Aakanksha presented her innovative idea, VR Traveler, at the event held on March 23rd, 2024, at Zone by the Park, Chennai. The Ideathon was conducted by IET Chennai LN.



STUDENT'S ACHIEVEMENTS

RoboRoarZ



Two of our university team won first 2 places in RoboRoarZ, organized by Wefaa Robotics and SUTD, Singapore. Category that they won was Imaginary Robotics where they used a shape-changing Smorphi robot to solve a maze in the shortest time. We are proud and congratulate Ms Siddhima Singh, Student of B.Tech CSE [BDA] for her role in the team

AGAM 7.0



Our Student Soumya Jain, 1 year AM2 Section participated with her team in AGAM7.0 which is an international idea-hackathon event conducted by the faculty of management, SRM IST from 20-22 March. Her team have secured the runner's up position with a cash prize of ₹50,000.

ONLINE ALUMNI MEET

The event, "Alumni Meet (Virtual)", hosted by DSBS on Feb 17, 2024, featured a comprehensive program aimed at providing a platform to meet and greet our esteemed alumni.

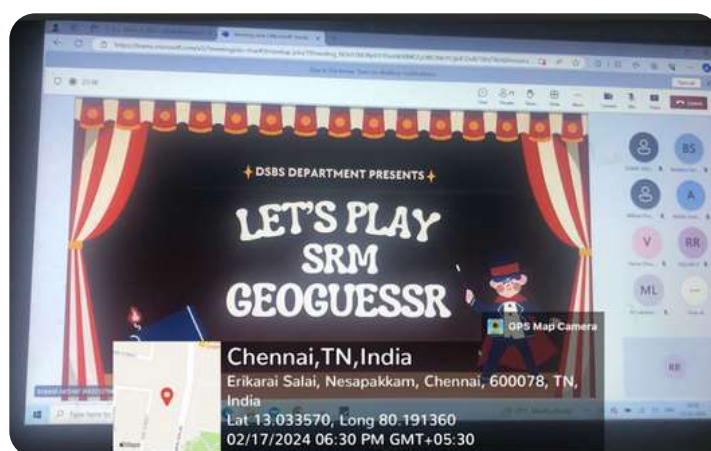
Welcome Note by DSBS Alumni Chapter President Mr. Athish Venkatachalam:

The event commenced with a warm welcome note from Ms. Benisha Sree, Student Volunteer. Her address set the virtual atmosphere for everyone to enter the DSBS funhouse. Her welcome note gave insight on the delights that awaited them, it also provided a unique opportunity to reconnect with their fellow juniors to celebrate and share their achievements as well. The event started off with promises to enrich experience through inspiring speakers, celebration of legacy and fun filled atmosphere.

Presidential Address – V.P. Athish:

The presidential address given by Mr. Athish V.P. spotlighted the need for continuous commitment and the need for holding hands for progressive achievements. He also revealed the overwhelming happiness he has experienced since the inception of the alumni chapter and projected the activities conducted by the alumni team since August. 2023. He recalled some of the events that made mark in the placement activities by boosting the final years with motivational speech and tricks to crack the interview process.

Opening Event to Cherish the Memory Lane – Let's Play SRM Geo Guessr:



Presidential Address – V.P. Athish:

The presidential address given by Mr. Athish V.P. spotlighted the need for continuous commitment and the need for holding hands for progressive achievements. He also revealed the overwhelming happiness he has experienced since the inception of the alumni chapter and projected the activities conducted by the alumni team since August. 2023. He recalled some of the events that made mark in the placement activities by boosting the final years with motivational speech and tricks to crack the interview process.

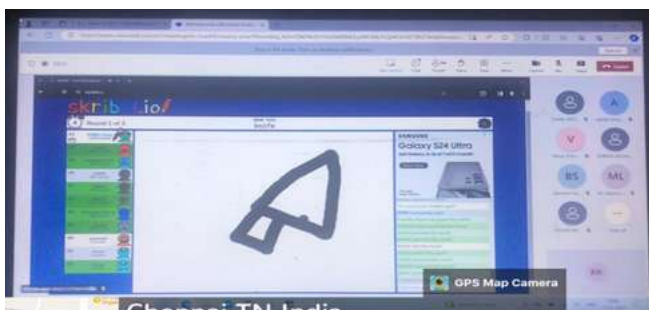
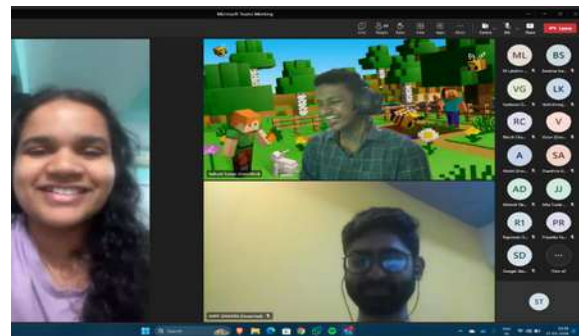
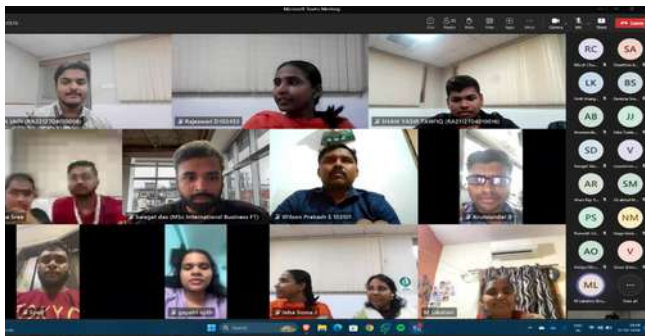
ONLINE ALUMNI MEET

Motivational Talk by Dr. M. Lakshmi, DSBS HOD:

Dr.M. Lakshmi, Head of the Department of Data Science and Business System gave a warm welcome speech by appreciating the game play organized by juniors as opening activity for alumni. She recalled the first batch and second batch of alumni of DSBS department and their achievements in placement activities. She also pointed out the efforts taken by alumni coordinators and faculty advisors to organize a virtual event to connect with our former students.

Alumni Talks

Distinguished alumni, to name a few, Soumyoneel Dey, Vyshnavi, Geetaanjali, Shubu Singh, Sneha S, Smrithi Prakash, Mriganka Jana, Sneham Nayyar, Hariharasudhan and Brijesh Jindal shared their experiences gained through four years journey they had at SRM. They were happy to put out the hilarious, boisterous moments they had in the campus. Most of all they loved to share the beautiful relationship they had with their faculty advisors throughout their journey as a student here.



JEFFREY ULLMAN COLLOQUIUM

Jeffrey Ullman Colloquium has been initiated with the aim of researching effectively among the Research Scholars of Department of Data Science and Business Systems. Weekly seminar series are conducted among the Research scholars and the Faculty members. The seminar series consists of the tools, methodologies, algorithms, etc from which the researchers will get benefited. Open and regular communication is very much encouraged.

Bias in LLM Corpus and Mitigation Strategies

Speaker: Dr.K.Shantha Kumari/ Associate Professor, DSBS Department

DATE: 23-03-2024

Addressing biases in the corpus used to train large language models (LLMs) is crucial to ensure fair and accurate outputs. Various strategies are employed to mitigate these biases. Data augmentation techniques, including introducing synthetic data or modifying existing data, are utilized to counteract biases. Fine-tuning methods adjust model parameters to prioritize certain aspects and mitigate biases during training. Debiasing algorithms explicitly aim to reduce biases in LLM outputs, while regularization techniques penalize model behaviors associated with biases. Ethical review processes involving human oversight help evaluate and address potential biases in the training data, promoting transparency and accountability in model development.



U-Net: Convolution Network for Segmentation

Mr.S.Nagarajan/Research Scholar, DSBS Department

16-03-2024



The presenter discussed the capabilities of a U-Net, providing an overview of its architecture before delving into a detailed explanation of each layer's functionalities and its applications in image segmentation.

JEFFREY ULLMAN COLLOQUIUM

Data Visualization Tool: Tableau

Mrs.M.Gayathri/Research Scholar,
DSBS Department

09-03-2024

Tableau is a powerful data visualization tool that empowers users to explore, analyze, and communicate insights from their data. With an intuitive drag-and-drop interface, users can effortlessly create a wide range of visualizations, including bar charts, line graphs, maps, and more. Tableau's strength lies in its ability to connect to diverse data sources, enabling users to work with data from spreadsheets, databases, cloud services, and more



Navigating the Research Landscape: Essential Tools and Techniques

Speaker: Dr.K.Rajkumar/ Assistant Professor,
DSBS Department

02-03-2024



The speaker talked about important tools and techniques that help with research. Topics included literature review strategies, effective data collection methods, citation management tools, and tips for staying organized throughout the research journey.

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Systematic Review Guidelines

**Speaker: Mrs.Kavipriya/Research Scholar,
DSBS Department**

24-02-2024

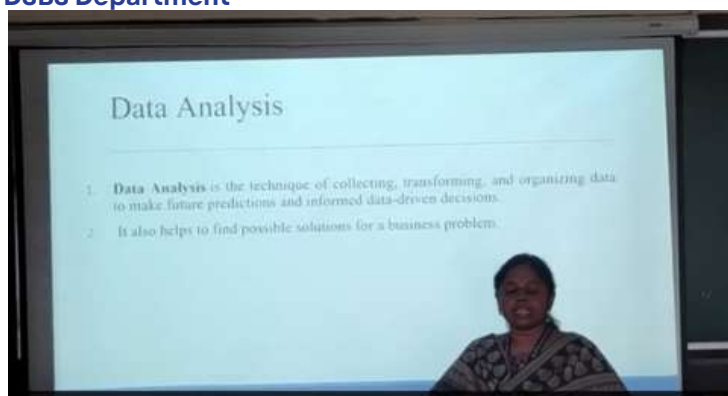
Systematic reviews require clear guidelines to ensure rigor and transparency. Key steps include defining research questions and inclusion criteria, conducting comprehensive literature searches, and employing systematic methods for screening and data extraction. Adhering to these guidelines is crucial for producing reliable and informative systematic reviews that contribute to evidence-based practice and decision-making.



Data Analysis and Visualization

**Speaker: Dr.Suthanthiradevi.P/Assistant Professor,
DSBS Department**

17-02-2024



Data analysis and visualization are essential components of modern research and decision-making processes. By leveraging various statistical techniques and visualization tools, analysts can uncover patterns, trends, and insights within datasets, facilitating informed decision-making. Effective data analysis and visualization enable stakeholders to communicate complex information in a clear and compelling manner, driving actionable insights and enhancing understanding across diverse audiences.

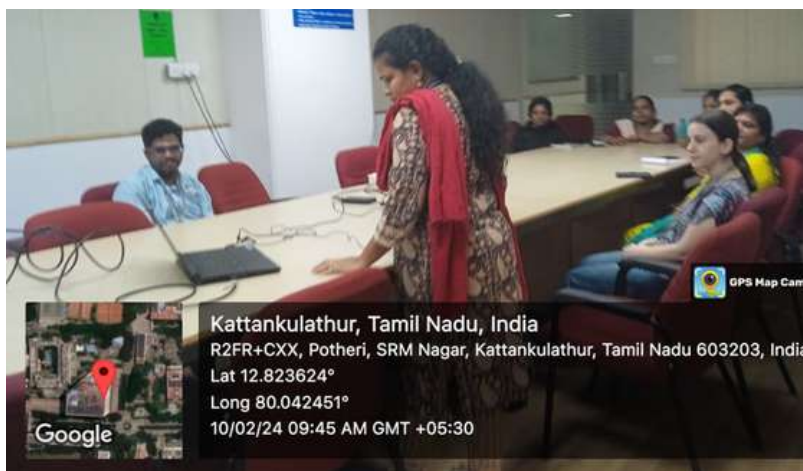
JEFFREY ULLMAN COLLOQUIUM

AI's impact on research projects: Revealing it's potential and risk

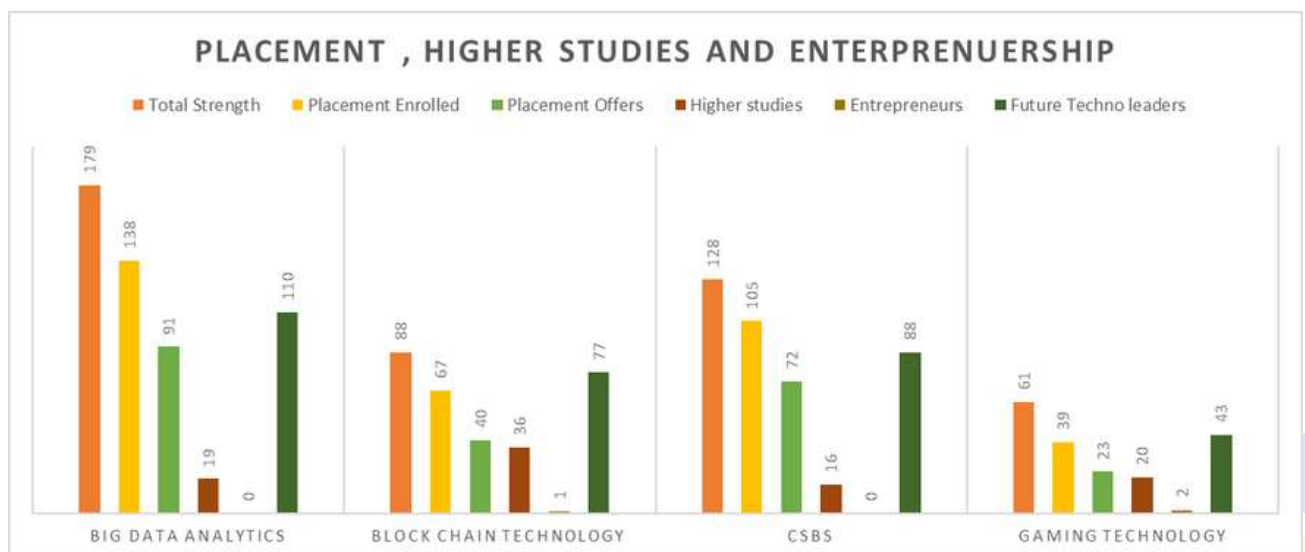
10-02-2024

Speaker: Mrs.Abinaya.M/ Research Scholar,
DSBS Department

The Speaker lectured about how various AI tools can be effectively used for the preparation of the research work, how it can be utilized for writing research papers in a better way and acquire knowledge about the recent developments. She also brought up potential risks such as plagiarism, wrong information, and other risks that might come up when using AI tools.



2024 Batch STATISTICS



SIEMENS - 2(1- BDA, 1-DATASCIENCE) JP MORGAN INTERNSHIP.(1-CSBS, 1-BDA) IBM - 1(BDA)

PLACEMENT TRAINING

OVERALL PLACEMENT COORDINATOR : DR P. KANMANI

The Data Structure Placement Training program is conducted on 23/3/24 from 8.30 am to 12.30 pm. The Placement team Dr S. Venkatesh and Dr.John deva Prasanna organized this event. Our faculties Dr. Geetha Jenefal, Dr.Nandhini , Dr.Praveen Kumar and Mr.Vasudevan trained the 3rd year students. This training is aimed to equip participants with essential knowledge and skills in data structures which is vital for excelling in technical interviews and securing placements in esteemed organizations. The Hands-on Practice and Mock interviews were arranged as a follow-up activity.



PLACEMENT TALKS

Placement Talk Coordinator : Ms B. Yasotha

10-01-2024

Expert Perspective on Future of Industry and Emerging Technology
Gollapudi Vyshnavi, Software Developer,F5 Networks Innovation pvt Ltd.

Organizers:Ms. B.Yasotha & Dr.P.Kanmani,

18-01-2024

Career Launchpad: Strategies for Successful placement
Mr. Arun Kumar Muralitharan

Organizers : Dr.K.Arthi, & Dr.K.S.Archana,

08-02-2024

A Guide to Thriving in the IT Industry
Mr.Balaji Santharam, Capgemini, Chennai

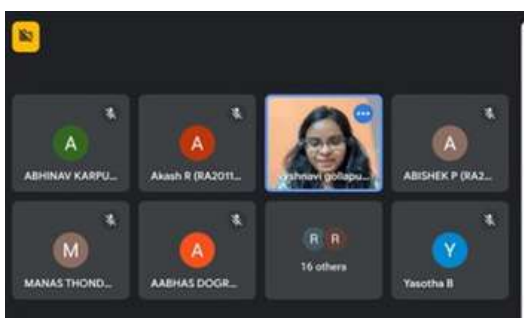
Organizers Dr.Nadana Ravisarar & Dr.M.Rajakani

21-02-2024

Exploring Opportunities for Career Advancement

Hardik Srivastava, Software Engineer - Applied AI/ML, JPMorgan Chase & Co.

Organizers: Dr.P.Rajasekar, & Dr.M.Arthy



We wish you all,

Vishu Ashamsakal,
விஷு ஆசம்சகல்

Happy Tamil New Year,
இனிய தமிழ் புத்தாண்டு
நல்வாழ்த்துக்கள்

Shubho Poila Boishakh, and
শুভ নব বর্ষ !

Happy Bihu
ৰঙালী বিহুৰ শুভেচ্ছা!

You

Why tirukkural is good to add in newsletter

Thirukural AI

Including Thirukural in a newsletter would provide readers with timeless wisdom and ethical guidance. The kurals offer insights on various aspects of life such as virtue, wealth, love, and human conduct. They are concise and practical, making them easy to read and reflect upon. Additionally, their universal applicability and moral teachings can inspire and positively influence the readers' personal and professional lives.

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குறள் 75

அறத்திற்கே அன்புசார் பென்ப அறியார்
மறத்திற்கும் அஃதே துணை.

விளக்கம்:

அறியாதவர், அறத்திற்கு மட்டுமே அன்பு துணையாகும் என்று கூறுவர்:
ஆராய்ந்து பார்த்தால் வீரத்திற்க்கும் அதுவே துணையாக நிற்கின்றது.

MEANING:

LOVE SUPPORTS VIRTUE ALONE', SAY THE FOOLS.IT SUPPORTS VICE AS WELL.

ஹிந்தி (हिन्दी)

साथी केवल धर्म का, मानें प्रेम, अज्ञान ।

त्राण करे वह प्रेम ही, अधर्म से भी जान ॥

