DATA
CHRONICLE

OFFICIAL NEWSLETTER

DATA SCIENCE AND BUSINESS SYSTEMS

SCHOOL OF COMPUTING
SRM INSTITUTE OF SCIENCE AND TECHNOLOGY
KATTANKULATHUR

SRM
INSTITUTE OF SCIENCE & TECHNOLOGY
Deemed to be University u/s 3 of UGC Act, 1956

SCHOOL OF
COMPUTING

DATA SCIENCE AND BUSINESS SYSTEMS
· SCO-SRMIST ·

Data Chronicle - Oct 2023

Editor's Message

" Keep your face always towards the sunshine": And shadows will fall behind you"

Dear Aspirants!

The quarterly newsletter Data Chronicle touches your hands and bring breeze to your eyes by bringing increased awareness , improved interaction and integration among all of us. This newsletter is the medium which acts as a fabric through the threads of getting proper acknowledgement and respect of all those who work behind the scenes overtime round the clock planning things and acquiring skills and results.

The Department of Data Science and Business Systems helps in building up team work which is very much needed today in the world of competition. This continues to documentation culture and would absolutely create an impact in the minds of the readers by way of providing longer visibility and dimensions in the department. The mission to continuously enhance the department with better facilities and ambience stays in action. Candidly speaking,to deliver the best of everything has become the passion to each one of us, as instead of profession but we have found it as a passion.

Scientist Einstein found that his passion because he wondered what if a man traveling in a spaceship at the speed of light feel if he looked out of the window and absorb a man standing still. He daydreamed, doodled, and finally found his passion.

Of course, the challenges are there in plenty at every step. But we are undeterred committed and determined to work and to win.

There are no failures. If at all there, who have missed the chances to win,the present failures will in no way deter us from abandoning the path leading to success. We are continuously analyzing the shortcomings and trying to plug the holes to come up with better deliveries to our stakeholders. We know this is the time to stand apart from the crowd and undoubtedly it is we, we all, the one and only department of DSBS.

The bad news is" Time Flies"
The good news is, " We have Time"

Stay Tuned. Meet you again.

B. Amutha
SCO – Newsletter Head.

Editor

Dr. B. Amutha
NEWSLETTER - HEAD
SCHOOL OF COMPUTING

Advisor

Dr. M.Lakshmi
DSBS - HOD

Faculty Team

Dr. K. Shantha Kumari

Dr. R. Rajkumar

Support Team

Ms R.S. Sangeetha

Ms. R. Mahalakshmi

Department of Data Science and Business Systems

Data for Social Good

The Department of Data Science and Business Systems at SRMIST was established in 2021 with the aim of providing students with the necessary technical expertise and skills to become entrepreneurs and product developers in the field of data science and business analytics. The department is at the forefront of innovation, bridging the gap between data-driven decision-making and business strategy. The department's interdisciplinary approach combines the fields of computer science, statistics, and business, fostering collaboration and encouraging the exchange of ideas. This unique blend of expertise allows for the development of innovative solutions that address real-world challenges.

"The department envision to:

- Prepare the next generation of practitioners and researchers for a data-centric world to expand the capacity to securely store and distribute data.
- Explore and innovate tools and techniques for efficient data visualization to support the business process; and
- Motivate and nurture young minds with an equal appreciation of business processes and human values.

HOD's Message

Dear All,

"Remember to celebrate milestones as you prepare for the road ahead" - Mandela

In the journey of life, milestones mark our progress and remind us of how far we've come. Take a moment to celebrate each milestone you reach, for they are the building blocks of your success. Reflect on the challenges you've overcome and the growth you've experienced.

Let these moments of celebration fuel your determination and ignite your passion for the road ahead. Embrace the journey with enthusiasm and resilience, knowing that each milestone brings you closer to your dreams. Keep pushing forward, stay focused, and believe in your ability to achieve greatness. Celebrate your milestones and let them be a source of inspiration for the next chapter of your journey.

Let's Grow Together !!!

Dr. M.Lakshmi
DSBS - HOD

Specializations @ DSBS

Technology Specializations

- Big Data Analytics (BDA)
- Blockchain Technology (BCT)
- Gaming Technology (GT)
- Data Science (DS)
- Computer Science & Business Systems (CSBS)

Courses and Levels offered

Under Graduate Programs

- B.Tech CSE with BDA
- B.Tech CSE with GT
- B.Tech CSE with BCT
- B.Tech CSBS
- B.Tech CSE with Data Science

Post Graduate Programs

- M.Tech CSE with BDA
- M.Tech CSE with DS
- M.Tech CSE with DE
- Intg M.Tech CSE with specialization in Data Science [5 Years Course]

Salient Features of Specializations

Big Data Analytics / Data Science

- Prof G. Vadivu, Program Coordinator of Big Data Analtyics and Data Science is spearheading the collaboration between **National Chung Cheng University (CCU), Taiwan.** Through this collaboration, a MoU has been signed and several activities have been carried out.

- **Taiwan-India Joint Living Lab on Big Data Analytics** is established. Several pandemic related research works are being carried out.

- **MOU with National Institute of Electronics & Information Technology [NIELIT]** is established. This MoU focuses on collaboration on academic and research activities, Faculty Exchange / Mobility, Research collaboration in the field of Computer Science.

- International Collaborations were established with Dalhousie University (Canda), Oakland University (USA)

- **"Academic without Borders"** - International Mentoring from Canadian Professors on "Visual Analytics" is provided to BDA and DS students.

- MoU is signed with **PadhAI - One fourth labs** and certification courses are offered.

- Multi-disciplinary projects with healthcare are implemented along with SRM Medical hospital and college.

Salient Features of Specializations

Blockchain Technology

- Prof. S. Ganesh Kumar is the Program Coordinator of this disruptive technology group and he is the pioneer behid many industrial collaborations.
- MOU with IDS Blockchain and FAB (Fintech and Banking).
- Special Electives offered from Copenhagen Business school (Denmark), SKOLTECH (Russia).
- International Collaborations were established SKOLTECH for Blockchain based agro-economics projects.
- "Hackfest" – Technical event is conducted for students to explore the new challenges and opportunities in blockchain.

Gaming Technology

- Prof. A. Murugan, Program Coordinator is in charge for this innovative discipline.
- MoUs are signed with Corporates – Scopik and Unity Academic Alliance.
- Students are trained and certified from Unity Academic Alliance as Unity certified Associate, Programmer and Artist Game developer.
- Internships are made available in Game development industries such as Axon, Qneuro, and Gamification industries such as Mtutor, edtech.
- Industrial visits are organized to Gaming studios across India . ABAI Studio is recently visited.
- Bootcamps on Game development is arranged for students.
- Therapeutic Gaming projects are designed and developed for SRM Medical hospital and college.

Computer Science and Business systems

- Prof. E. Sasikala, Program Coordinator is the forerunner for this inter-disciplinary course.
- MoU is signed with Tata Consultancy Services (TCS) and through this MoU, the course curriculum is shaped to meet the demands of the industry.
- Internships and Industrial visits are available to as part of the MoU.
- Faculty development programs are organized by TCS and Faculty are trained in core subjects.
- The curriculum of this course is reviewed by TCS and recently NEP alignment of CSBS is discussed at TCS, Kolkata campus.
- Supplementary training on "Software Project Management" processes and techniques from Project Management Institute (PMI) is provided to our students.

Compendium

- **Department News**
  - FDP on Data Science Tools and Applications
  - Outreach Program for School Kids on Universal Human Values
  - Workshop on Industry Coding Practices and Conventions
  - Webinar on Cloud computing: Application architecture
  - English made easy - Reaching out Sivananda Gurukulam Children
  - Outreach activities with Puthiyathalaimurai TV
  - Workshop on Deep Learning Techniques
  - First year DSBS Students Orientation Program
  - Workshop on MERN FULL STACK
  - DSBS Talent Hunt '23
  - Panel discussion on Tech mind Building
  - Inauguration of DSBS Alumni Chapter
  - Game Expanse 2023
  - Blockchain 101
  - FDP on Data Analytics Tools
  - Teachers' Day Celebration @ DSBS
  - Alumni Online Conclave on MITACS
  - Mock Interview session with Alumni
- **People of DSBS**
  - Memorandum of Understanding - NIELIT
  - Memorandum of Understanding - IDS blockchain
  - Faculty Abroad Program
  - Funding Sanctioned for Research
  - Launch of UDEMY Course
  - Upskilling Activities - FDPs / Workshops/ Seminars
  - Upskilling Activities - Certifications/ MOOC
  - Digital Transformation using Industry 4.0 and Artificial Intelligence- Technical Article
  - Notable Achievements
  - Faculty Publications
  - New additions to DSBS Family
- **Students of DSBS**
  - Alteryx Datathon
  - Blockchain Club - Student's Presence at Events
  - Internships @ NCCU, Taiwan
  - Unfold 2023 hackathon
  - Alumni Speaks - Priyanka Ravichandran & Athish
  - MITACS Research Internship Experience - Diptanshu Debnath & Utkarsh Yashwant Tambe
  - DSBS Placement Details
- **Gallery**

FDP on Data Science Tools and Applications

Convenors : Dr. Priyadarsini K, Dr. Jeba Sonia J

The FDP on "Data Science Tools and Applications" is a specialized training program designed to enhance the skills and knowledge of faculty members in the field of data science. This program focuses on providing participants with a comprehensive understanding of various tools and applications used in data science. Through hands-on exercises and practical sessions, faculty members gain expertise in utilizing these tools to effectively teach and mentor students in data science related courses. The FDP equips educators with the necessary resources to deliver high-quality instruction and stay updated with the latest advancements in data science tools and applications. There are 100 participants in the program. At the end of the FDP, the participants are able to have a clear understanding of what data science is and its role in decision-making and are familiar with the key tools and technologies used in data science.

Resource Persons:

Mr. Santhosh Satish
Manager of Teams,
DHL IT Services, Chennai.

Mr. Nishanth Nalan
Practice Head – Life Sciences (India)
ACL Digital, Chennai, India.

Dr. Chandran V
NVIDIA Expert

Dr. Sivasankari
Data Engineer
BIZAnalytica, Chennai

Outreach Program for School Kids on Universal Human Values

Department of Data Science and Business Systems, in collaboration with the Universal Human Values cell of SRM Institute of Science and Technology, Kattankulathur, successfully conducted an outreach program at Panchayat Union Middle School, Ninnakarai, Chengalpattu, Tamil Nadu on 4th August 2023. The event was aimed at spreading awareness and fostering a deep understanding of universal human values among 120 school children. Through activities like oratory, drawing, and quiz competitions, the program brought a blend of learning and fun for the students. It was truly heartening to see the students enthusiastically participating and showcasing their talents! Prizes were distributed to the winners, adding to the excitement and encouraging a competitive spirit. Our faculties from SRMIST also delivered enlightening speeches on the importance of universal human values. Their valuable insights left the students inspired and motivated to uphold these values in their lives.

**Organizers: Dr. Shobana Devi A ,Dr. Radha R ,Dr. Panimalar K
Dr. Sharanya S ,Dr. Prakash M ,Dr. Shri Bharathi SV**

Workshop on Industry Coding Practices and Conventions

The Department of Data Science and Business Systems organized an Online workshop on "Industry Coding Practices and conventions" on 19.7.2023 from 1.30 am to 3.30 pm. The Purpose of the workshop is to learn about Mini, Minor and Major Projects standardization & Assessment. All the faculty who are mentoring the student projects got benefitted from the workshop. Coding Guidelines, Design (UML Design Tool, draw.io, UML Design representation), Architecture & Design Documentation, Big picture of a project, Scrum were discussed in this online workshop.

Resource Person: **Mr. Balaji Haridass**
Senior Technical Leader
LG Soft India

Organizers: Dr M.Lakshmi, Dr K. Shantha Kumari, Dr R. Rajkumar

Aug 8, 2023

Webinar on Cloud computing: Application architecture

On August 8, 2023, from 9:45 am to 11:30 am, an online webinar on "CLOUD COMPUTING: Application Architecture" was organized by Dr. K. Panimalar (Assistant Professor, DSBS). The goal was to keep our academic community abreast of the latest trends in Cloud Computing, leveraging Mr. Mohandoss's vast reservoir of knowledge. The webinar was further elevated by the presence of Professor Dr. Lakshmi M., Head of DSBS. Around 30 eager students from the DSBS department actively participated, making the session vibrantly interactive. Their probing questions and enthusiastic interactions were a testament to their zeal for knowledge.

Resource Person

Mr. Mohandoss,
Founder & CEO
CompassMet Consulting LLP

Organizer: Dr. Panimalar K

1879: Thomas Edison develops an electric car with a non-rechargeable battery.

English made easy - Reaching out Sivananda Gurukulam Children

We recently organized a heartwarming event at Sivananda Gurukulum, where we had the privilege of interacting with the dedicated students of the ashram. Our aim was to provide them with valuable insights and skills in the English language. The event began with engaging sessions focused on dictionary usage, pronunciation of challenging words, self-introduction techniques, and the formation of basic English sentences. These foundational lessons were followed by a lively play-along session that left the students brimming with enthusiasm. An Antarakshi game added an element of fun and learning to the event.

To ensure that the students had a delightful experience, we provided them with snacks that they relished. However, the true highlight of the day was the distribution of Tamil-English dictionaries to each and every student. This thoughtful gesture aims to empower them with the tools needed to expand their English vocabulary and language skills. It was heartening to witness the students' eagerness to learn and their requests for us to return, a testament to the success and impact of our event.

Organizers: Dr.S.Suchitra , Dr.K.Arthi , Dr. A.V.Kalpana and Dr.J.Shobana

Outreach activities with Puthiyathalaimurai TV

Workshop on Deep Learning Techniques

Organizers: Dr. A.V.Kalpana and Dr.J.Shobana

Resource Persons:

Mr J.B. Arockia Praveen
Senior Machine Learning Engineer,
Sacn Flow, Coimbatore.

Dr S. Sharanya,
Assistant Professor
DSBS, SRMIST

Mr.Vinoth
Senior Analyst,
Tiger Analytics, Chennai

   This workshop enabled the participants to acquire knowledge about Deep Learning Techniques and provide a chance to interact with experts from the specific field. There were totally 70 participants, and 4 sessions held this workshop. The titles of the sessions are Introduction to Neural Networks and Keras , Introduction to Convolution Neural Networks, Introduction to RNN and LSTM and Text Classification, Sentiment Analysis with Sequence models and Keras. The speakers demonstrated the ways to work with sequences of words and paragraphs, generally in the field of natural language processing (NLP). The session was very interactive and highly informative. At the end of the session, participants were able to comprehend the steps involved in the deep learning techniques, from problem formulation to data collection, preprocessing, analysis, and interpretation.

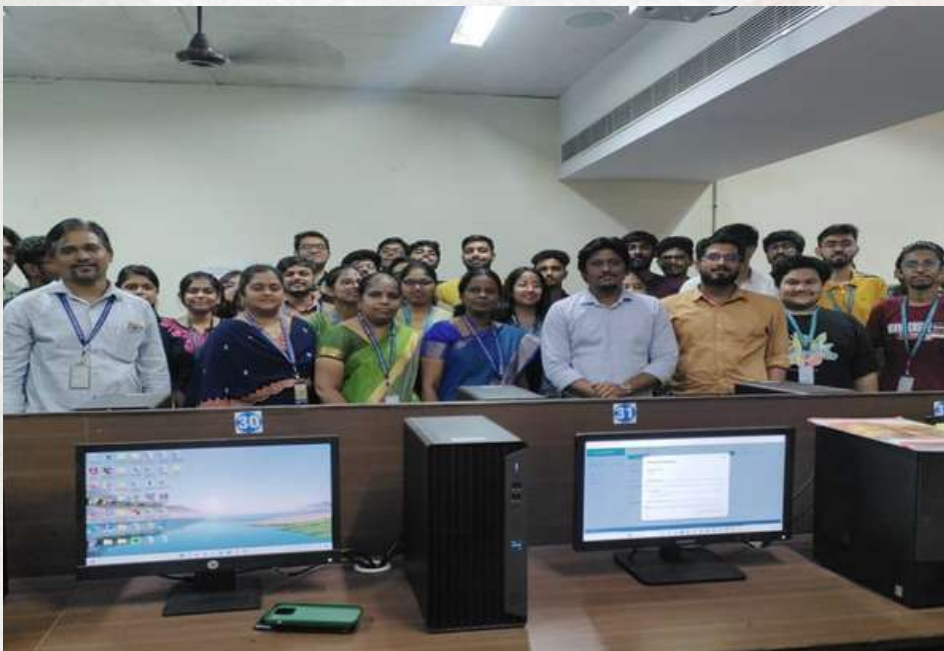# First year DSBS Students Orientation Program

DSBS Department recently welcomed a new batch of students with curious minds to know about incredible opportunities that await them within the university. To ensure they have a comprehensive understanding of what SRM has to offer, the faculty, led by our chairperson Dr. Revathi Venkataraman and HOD Prof. M. Lakshmi organized an orientation program on August 11, 2023. This program aimed to showcase the wide range of possibilities available for students to pursue entrepreneurial ventures or secure employment in renowned industries. Additionally, it provided information on studying abroad through SRM's platform. The orientation program also highlighted the various clubs within SRM and their respective functions. Dr. T. Karthick, the Academic advisor coordinated the event.

Organizer: Dr T. Karthick and First year Faculty Advisors

Workshop on MERN FULL STACK

The Full Stack Development Workshop was a comprehensive and insightful event that delved into the latest trends, technologies, and best practices in full stack development. This workshop is a blend of theory and practical with hands-on sessions on each and every concept. There were totally 63 registered participants for this workshop, and they all learned the fundamentals of Web development by gaining in-depth knowledge of front-end technologies and webpage creation. The topics covered during the workshop are: Azure Cloud Development, Incident Management, Advanced Services of Azure, Power platform and its effectiveness in Real-Time project, advanced methods in Coding using AI Tools.

Resource Persons:

Mr.Sarath
FinOps Consultant
Director of CaseperIT, UK.

Mr.VijayaKeerthi
CEO
DataDNA, Chennai.

Mr.Aravind,
Software Developer,
DataDNA, Chennai.

Organizers: Dr S.Suchitra and Dr K.Arthi

DSBS Talent Hunt '23

Nurturing Innovation and Excellence

The Department of Data Science and Business Systems at SRM Institute of Science and Technology, Kattankulathur, was abuzz with excitement as the DSBS Student Association orchestrated the much-awaited "DSBS Talent Hunt '23." Across two event-packed days on August 22nd and 23rd, approximately 75 enthusiastic students participated in three gripping contests: The Techno Challenge, Project Presentation, and Coding Contest. This event wasn't just a competition—it was a celebration of innovation and expertise within the data science and business systems domain.

Organizers: Dr T. Karthick, Dr M. Sangeetha, Dr R.Jayaraj, Dr R.Anita Jasmine, Dr C.Tamizhselvan

Panel discussion on Tech mind Building

The DSBS Student Association presented the event 'Panel discussion on Tech mind Building' to foster the spirit of entrepreneurship in young student minds. Two outstanding professionals, Mr. Aravind Balaji Gunasekaran, Senior DS Consultant, Tiger Analytics and Mr.Manish Sau, Entrepreneur, Founder at Ovonts were invited to lay the roadmap and resolve the real time huddles in the domain of Data Science, innovation and product development. After the technical session from the professionals, The panel opened the floor for students to clarify the questions regarding the ambiguities and the high scope of Data Analysis.

Resource Persons:

Mr. Aravind Balaji Gunasekaran
Senior DS Consultant,
Tiger Analytics, Chennai

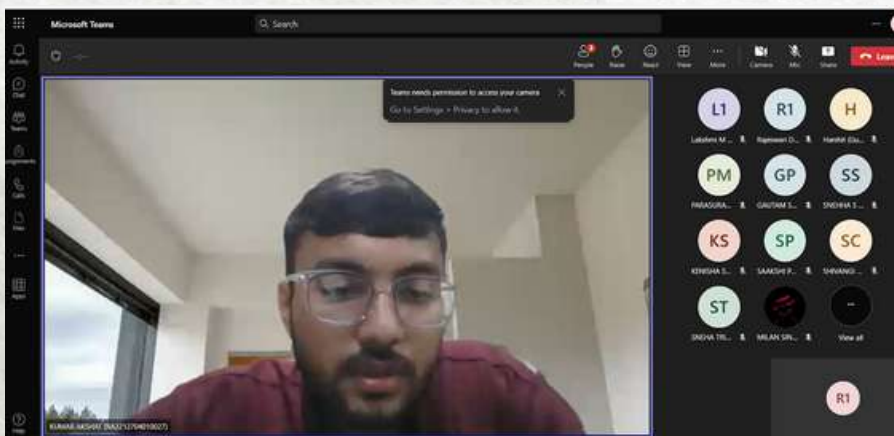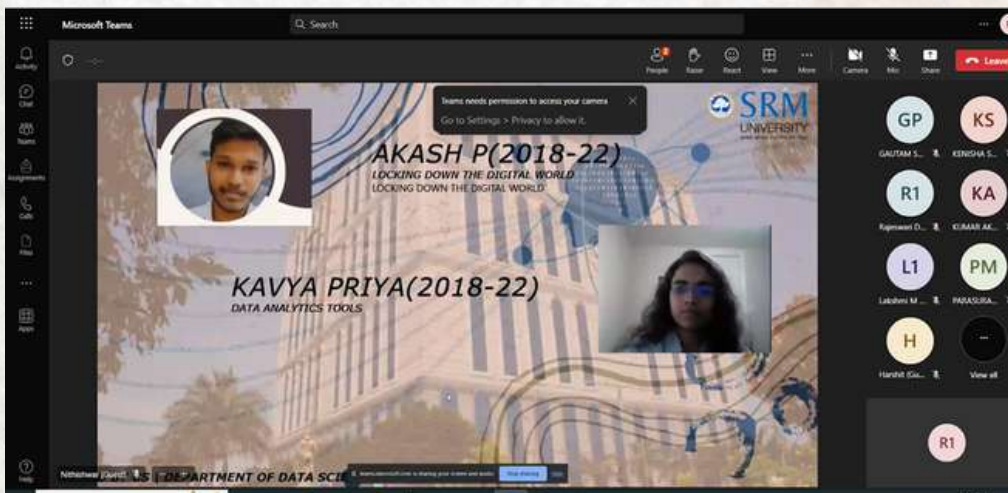**Mr.Manish Sau**
Entrepreneur, Founder at Ovonts

Organizers: Dr T. Karthick, Dr M. Sangeetha, Dr R.Jayaraj, Dr R.Anita Jasmine, Dr C.Tamizhselvan

Inauguration of DSBS Alumni Chapter

The alumni chapter was inaugurated with the sole intention of bringing together the esteemed alumni and the students of the Department of Data Science and Business Systems together. The alumni interaction with students will help them a lot in the academic progress of each and everyone.

Our Proud Alumni Resources
Dhanya Sasikumar , Prasanth Sreedhar , P. Akash , Kavya Priya

Organizers: Dr. D. Rajeswari, Dr. R. Radha, Dr. S. Wilson Prakash and Dr. B. Arunsundar

Game Expanse 2023

Game Expanse 2023 is a 3 Day Game Jam conducted by the students of the Game Developers Community of SRM. The event is from 28th to 30th of August and is taking place in TP404&405. The game jam will be concluding on the 30th of August with industry professionals such as Mr. Anand Ramachandran from Big Fat Phoenix judging the works of the students and presenting prizes in the Valedictory Ceremony.

With 25 registered teams, each with 1-4 members with students coming from various departments within the university, the event successfully has begun with the inauguration ceremony taking place under the presence of Dr. M.Lakshmi, HOD of Data Science and Business Systems, Dr A. Murugan, Program Coordinator for Gaming Technology and Dr Chinnasamy & Dr Sindhu, the faculties in charge of Gaming Technology.

Organizers: Game Developers Community Office bearers

Blockchain 101

The event provided a comprehensive introduction to blockchain for both beginners and enthusiasts. The Event focused on explaining the basics of blockchain technology and essentially pointing out the various uses of the technology and it shed light on:

- Blockchain Fundamentals
- Cryptocurrencies, Cryptography and Crypto Canon
- Router and Qoneqt Technologies
- Future Trends

Participants delved into the world of cryptocurrencies, with a special focus on Bitcoin and Ethereum, and how these digital assets operated on blockchain networks. They also gained insights into the technical aspects of blockchain, from transaction verification to the role of miners. Additionally, the event discussed the impact of self-executing smart contracts on automation and trust in various applications, and attendees had the opportunity to engage in an interactive Q&A session, making it a perfect platform for expanding knowledge and networking in the blockchain ecosystem.

Resource Persons:

Mohamed Azharuddin
CEO, Qoneqt

Devansh Devam
Google DSC lead

Aditya Jain
Founder of Porfo

Organizers: Blockchain Club Office Bearers

FDP on Machine Intelligence and Futuristic Research Directions

The objective of the FDP to achieve and establish a forum that connects experts from academia and Industry for enriching their knowledge and skillset pertaining to real-world applications in the domain of Machine Intelligence. The FDP aims to enlighten the beginners with an initiative to foster research interest in the area of Machine Intelligence apart from benefiting the researchers and faculty members who are already in this field with better exposure to the field. The sessions of FDP are meticulously organized and designed so that the participants were able to acquire multidisciplinary cognizance in applying Machine Intelligence to solve real world problems. The hands-on sessions provided in the FDP has provided a platform for the learners to gain knowledge and visually witness the outcome of their work. This offline FDP has provided a wide knowledge for research scholars. The scope of research in various domains related to image processing was presented to the audience.

Resource Persons:

Dr. A. Shobanadevi (SRMIST), Dr. Balaji (SSN) Dr. M. Venkatesan (NIT-PY), Dr. Malaya Kumar Nath (NIT-PY) Dr. G. Kumaravelan (PU) Dr. Rahul Raman (IITDM, Kanceepuram) Mr. TK. Senthil kumar (NYBL), Mrs. Lekha. K, (Amazon) Dr. Masilamani V (IITDM, Kanceepuram) Mr. Arockia Praveen J B (Scan Flow)

Organizers: Dr. Shobanadevi A, Dr. Radha R, Dr. Sharanya S, Dr. Prakash M

Teachers' Day Celebration @ DSBS

The Teachers' Day celebration was conducted to appreciate and celebrate the tireless work of the teaching professionals of the department. The Head of Department (HOD) and Program Coordinators delivered heartfelt addresses to honor and appreciate our dedicated teachers on this special day. It was a memorable and inspiring start to a day dedicated to celebrating the invaluable contribution of our educators. After the cake-cutting ceremony, the Teachers' Day celebration continued with a series of fun games, including Chinese whisper and guess the logo. The event concluded with the distribution of cake to all attendees, symbolizing the sweetness of the occasion. It was a joyful and memorable event that honored the invaluable contributions of our teachers and left everyone with a sense of gratitude and camaraderie.

Organizers: Dr. T. Karthick , Dr. M .Sangeetha , Dr.R.Jayaraj, Dr. R.Anita Jasmine , Dr.C.Tamizhselvan

Game Expo 2023

Game Expo 2023 was conducted on 8th September 2023. The Expo was held in UB Ground Floor and was active from 9:00 am – 5:00pm. Students who participated in Game Expanse 2023, a game jam held by Game Developers Community, SRM, showcased their products in the Expo. Close to 300 students visited the expo and enjoyed the time spent in trying out the different games at display. The Expo was a success and received positive feedback.

The expo showcased games such as Time Knot, Infinite Odyssey and Bewildered.

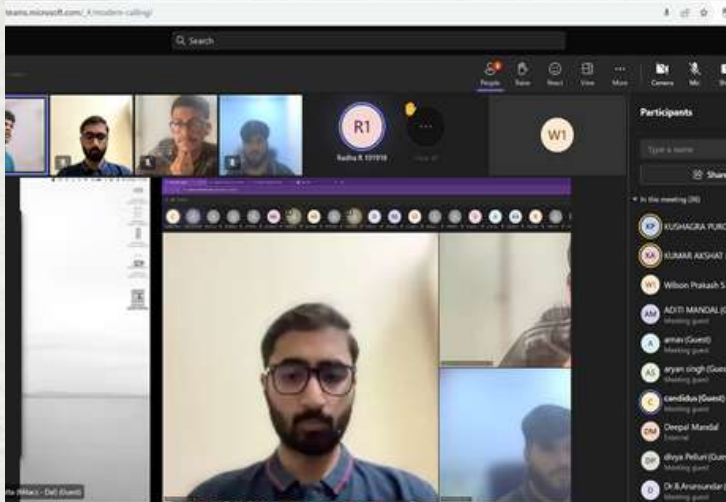**Organizers: Game Developers Community Office bearers**

Alumni Online Conclave on MITACS

The online conclave on the MITACS Programme, organized by the department, proved to be an insightful and interactive session for all UG students. The event brought together alumni, who shared their experiences and valuable insights, creating an opportunity for the current students to learn about MITACS and the significance of internships.

Our Proud Alumni Resources

Kusum Paarag Grandhi , Harsh Sharma , Keshav Rao , Eeshan Dutta , Hardik Srivastava

Event Highlights

1. Alumni Reflection
Alumni, who had successfully completed the MITACS program, shared their experiences and insights during the conclave. They recounted their final year days and how they prepared for the program. Their anecdotes, challenges faced, and achievements served as valuable insights for the current students.

2. What's and What Not's
The alumni provided a comprehensive overview of "what's" and "what not's" when it comes to preparing for the MITACS program. They highlighted key strategies and practices that helped them succeed and also pointed out common pitfalls that students should avoid.

3. Importance of Internships
The significance of internships was a prominent discussion point during the session. Alumni stressed the importance of internships in shaping one's career and how MITACS can be an excellent avenue for such opportunities. Students were encouraged to actively seek internships and leverage the MITACS program as a gateway to valuable experiences.

4. Interaction and Networking
The conclave facilitated direct interaction between alumni and students. This interaction not only helped students clarify their doubts but also allowed for networking opportunities. Alumni offered guidance and mentorship, strengthening the bond between the present and future graduates of the department.ni.
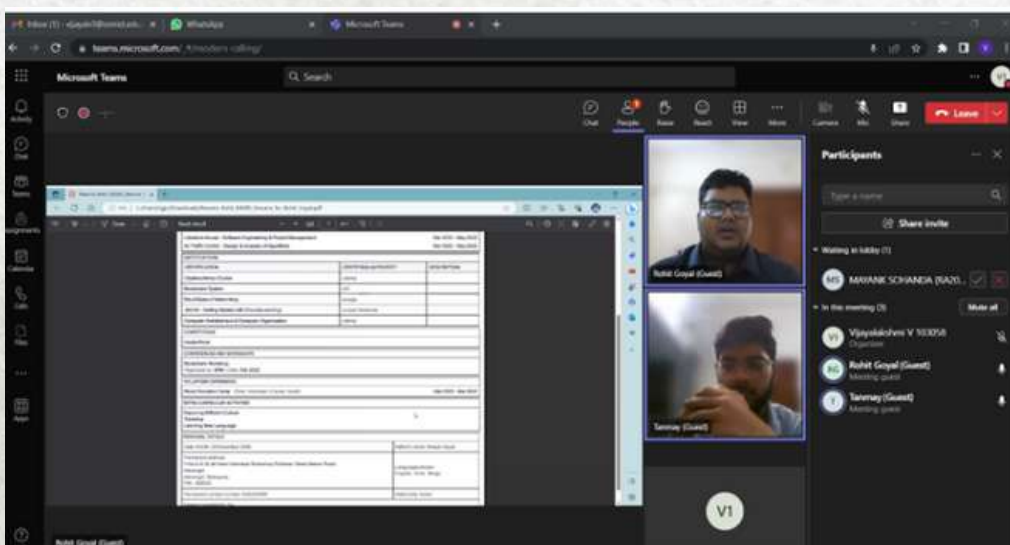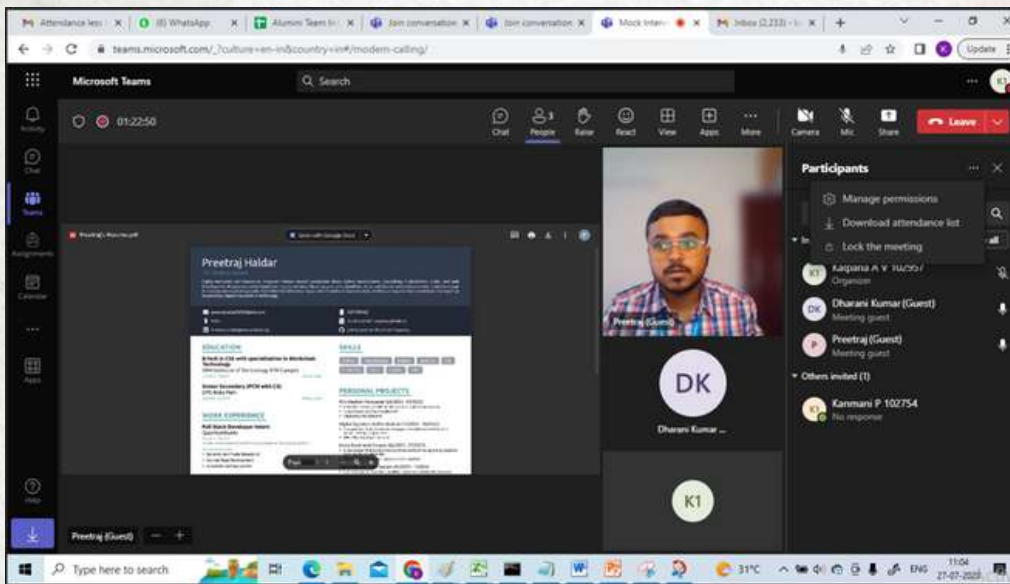
5. Eye Opener and Ice Breaker
The interactive session proved to be an eye-opener for all UG students. It demystified the MITACS program and ignited enthusiasm among prefinal-year students to consider participating. The event was an icebreaker, fostering a sense of community and camaraderie among students and alum

Organizers: Dr. D. Rajeswari, Dr. R. Radha, Dr. S. Wilson Prakash and Dr. B. Arunsundar

Mock Interview session with Alumni

The alumni mock interview scheduled along with DSBS placement team for the final year students gave a wide scope for students to connect with industry experts and get to understand the industry standards as well as expectations. The alumni were generous enough to spare more than a couple of hours to interact with the students, get to know them and their skill sets. They questioned the students about their goals and interests. They also shed light on the skill set requirement for the students based on their area of interest.

Since the interview was scheduled based on the interest and expertise of the alumni as well as the knowledge level of students, the interaction between them was a great experience of learning for the students. The feedback from the alumni was recorded and the points mentioned was taken into consideration and the same is decimated to students for corrective action.

Organizers: Dr R. Radha and Dr P. Kanmani,

Memorandum of Understanding - NIELIT

Department of Data Science and Business Systems has signed MOU with **National Institute of Electronics & Information Technology [NIELIT]**. This MoU focuses on collaboration on academic and research activities, Faculty Exchange / Mobility, Research collaboration in the field of computer Science.

NIELIT will provide training and education in emerging technologies such as Artificial Intelligence, Internet of Things, Big Data and Machine Learning through Internship Training, Short- Term Training Courses, Customized Industrial Training programs of 4/8 weeks' duration, Skill development programs, Organize joint Conference, seminars, workshops. Dr. M. Lakshmi, Dr. G. Vadivu, Dr. A. Shanthini and Dr. A. Shobanadevi have put their efforts in signing this MOU.

Memorandum of Understanding - IDS blockchain

Information Data Systems (IDS) and SRMIST have joined forces to foster blockchain education and applied research in Automotive , Supply chain and logistics sector. The collaboration aims to establish the Applied Blockchain Centre at SRMIST, focusing on Hedera Hashgraph and the Bharat Blockchain Network (BBN).

Under the Memorandum of Understanding (MOU) signed between IDS and SRM on 02-08-2023, the partnership will address three key areas, including enterprise blockchain for the automotive , supply chain and logistics sector, Hedera Hashgraph use cases and implementations, and use cases of national interest on the Bharat Blockchain Network.

Selected students and faculty members of SRM will have privileged access to the Applied Blockchain Centre's state-of-the-art lab facilities for hands-on sessions and applied research work under the program.

IDS will also organize various activities, including Joint Blockchain Certification Programs, Faculty Development Programs (FDP), Blockchain Annual Summit, to foster blockchain expertise at SRMIST.

Speaking about the collaboration, Aravind Voruganti, VP Blockchain at IDS said, "We are thrilled to partner with SRMIST and promote the growth of blockchain adoption in Automotive sector." and "Applied Blockchain Centre at SRMIST is one of the 5 Applied Research centers as part of Bharat Blockchain University Industry Cluster aligned to UIC guidelines of University Grants Commission."
Sunil Yadavalli, Business Head IDS, Dr. S. Ganesh Kumar and other faculty members were present at MoU signing ceremony.

About IDS:

Information Data Systems (IDS) is a renowned leader in the enterprise blockchain space, providing cutting-edge solutions to various industries worldwide, driving digital transformation and creating new opportunities for businesses.

Faculty Abroad Program

International Research Experience Penned by Dr V. Kavitha

I am currently participating in the Faculty Abroad Programme under the guidance of Dr. Debajyoti Mondal at the University of Saskatchewan. My research focus is centered on "Information Visualization," with a particular emphasis on visualizing large databases.

Research Progress

Large-Scale Graph Layout: I am actively engaged in working with the Mbtile server in conjunction with Tippecanoe to visualize large-scale graphs. A portion of my research is dedicated to visualizing collaborative relationships among researchers. This entails creating visual representations that highlight how researchers work together, collaborate, and contribute to various projects. The goal is to provide a clear and intuitive way to comprehend complex research networks. To enhance the user experience and interactivity of the visualizations, I am in the process of implementing a "click event" feature for the large graph. This will allow users to explore and interact with specific elements of the visualization, gaining deeper insights into the data. I am addressing the challenge of optimizing data loading times. A key strategy I'm employing is the separate loading of the vertical tileset. By doing so, I aim to significantly reduce the time complexity associated with handling large datasets.

Collaborations:

- I am in the process of initiating a general Memorandum of Understanding (MoU) with the University of Saskatchewan (USASK) for the SAP (Student Abroad Programme).
- I have scheduled a meeting with Dr. Xavier Fernando, Professor at Toronto Metropolitan University and Director of the TMU Intelligent Communication and Computing Lab, on October 6th at Toronto Metropolitan University. Dr. Fernando is anticipated to visit our university in July 2024. During this visit, we plan to outline a series of collaborative activities.

Proposal Submitted:

I am delighted to announce that, in collaboration with Dr. Debajyoti Mondal, our proposal titled "Advancing Teaching, Research, and Collaboration in Information Visualization at SRM" has been approved as part of the SHASTRI FACULTY COLLABORATION AND INTERNATIONALIZATION PROJECT 2023-24. We are preparing to commence this project in February 2023.

Funding Sanctioned for Research

Funding Agency: **Divyasampark iHUB, Devices Materials and Technology Foundations, IIT Roorkee.**

Sanctioned amount: 9.99 Lacs + Equipment cost

Project 1: Spark-Break- IoT based fire control device to prevent fire accidents in firecracker manufacturing industries.
PI   : Dr.S.Ramamoorthy, Dr. D. Rajeswari
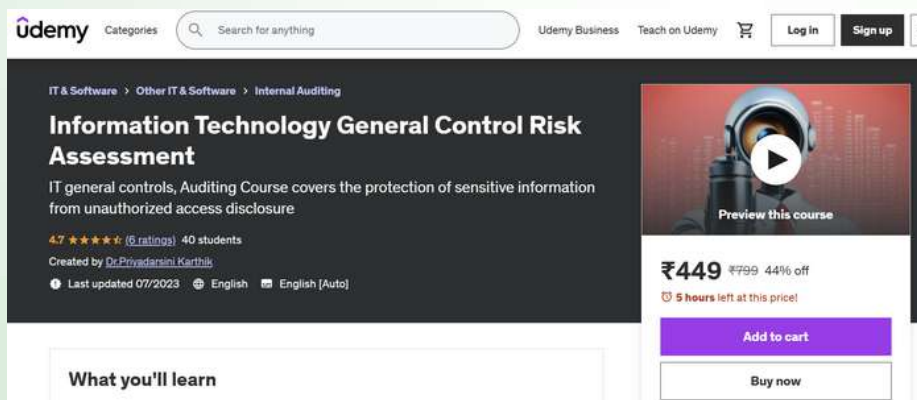Co-PI : Dr. Deepak kumar, Dr.M.Pushpalatha

Project 2: Digital Twin empowered Drones to assist the farmers to optimize the agricultural field yield.
PI   : Dr. Deepak kumar
Co-PI: Dr.D.Rajeswari, Dr. S.Ramamoorthy, Dr.M.Pushpalatha

Dr D.Rajeswari
Associate Professor

Launch of UDEMY Course

Dr K. Priyadarsini
Assistant Professor Professor

An Information Technology General Control Risk Assessment course was published in UDEMY, MOOCS Platform on 11th July 2023. This ITGC course is a comprehensive program that covers a wide range of topics related to IT and general computing. These courses are designed to equip learners with fundamental skills and knowledge in areas such as computer hardware and software, operating systems, networking, cybersecurity, programming, and data management. ITGC courses are suitable for individuals at various skill levels, from beginners to those seeking to enhance their existing IT proficiency. The curriculum typically includes video lectures, hands-on exercises, assessments, and resources to ensure a well-rounded understanding of the subject matter. Currently 70 learners registered and out of which 40 Learners have completed the course.

Upskilling Activities - FDPs / Workshops/ Seminars

- **Dr.M. Prakash, Dr.A.Shobanadevi, Dr.M.Arthi, Dr.SV. Shri Bharathi , Dr.M.Mercy Theresa , and Mrs.B.Yasotha , Dr K.Shantha Kumari and Dr. P. Kanmani** – Participated in the six day Faculty Development Programme on "Data Science Tools and Applications" from 17th July 2023 to 22nd July 2023 organized by Department of DSBS, SRMIST, Kattankulathur.

- **Dr G. Vadivu, Dr.A.Shobanadevi, Dr.M.Arthi and Dr.M.Mercy Theresa, Dr K.Shantha Kumari and Dr. P. Kanmani** – Participated in The Six Days Faculty Development Programme on Machine Intelligence And Futuristic Research Directions Organised by Department of Data Science and Business Systems, SRM institute of Science and Technology Kattankulathur from 04th to 09th September 2023

- **Dr.M.Arthi , Dr.M.Mercy Theresa,Dr.K.Panimalar –** Participated and Successfully completed the 5 days Face to Face UHV – 11 FDP Organised by All India Council for Technical Education (AICTE) at SRM Institute of Science and Technology SRMIST,Kattankulathur,Tamilnadu,From 30th May to 3rd June 2023.

- **Dr. K.S. Archana** – Participated in the 10 days online FDP on Transfer Learning and its Applications from3rd to 12thth July,2023, Sponsored by National Institute of Technology Warangal and Xavier Institute of Engineering.

- **Dr.T. Nadana Ravishankar , Dr.K.Panimalar**–Participated in Workshop in "Blockchain Technology", Association of Computer Science Engineers (ACE) and National Institute of Technology Puducherry (NITPY) 28th August– 1st September 2023.

- **Dr.P.C. Karthik** –Participated in Quantum Computing FDP on "Evolving Potentials of Quantum Computing Applications" from 11th September to 15th September 2023 organized by Department of Computing Technologies, SRM IST, Kattankulathur

- **Dr.A.Shanthini**– Participated and Completed UGC-Approved Refresher Programme Design, Development and Delivery of MOOCs held from July 24 to August 04, 2023, in Staff Training and Research Institute of Distance Education (STRIDE) INDIRA GANDHI NATIONAL OPEN UNIVERSITY.

- **Dr.T.Veeramakali and Dr A. Shobana Devi**– Participated in the Virtual Faculty Buildathon training on "Data Analytics with Cognos" from July 24th to August 04th 2023, organized by IBM SkillBuid powerd by Smart Internz.

- **Dr.K.Panimalar –** Participated in One-week national level FDP on "Cloud Infrastructure (AWS)", 21st–25th August 2023, Department of CINTEL, SRM with AICTEC and Brainovision India Ltd.

- **Dr.R.Jayaraj and Dr. K. Shantha Kumari–** Participated in One-week national level FDP on "Data Analytics Using Python – 19 Sep 2023 To 23 Sep 2023

Upskilling Activities – Certifications/ MOOC

- **Dr.M.Arthi** – Completed the NPTEL Online Certification Course for Python for data science in JUL – AUG 2023

- **Dr. K.S. Archana** – Course Completion of AWS Academy Graduate – AWS Academy Data Analytics 07/07/2023

- **Dr.M.Mercy Theresa** – Completed the Course in Introduction to Machine Learning In NPTEL – AICTE Faculty Development Programme . JUL – SEP 2023 (8 Weeks)

- **Dr.P.C. Karthik**– Completed CSEDU Compiler Design FDP with EXCELLENCE at I.I.T Madras from July 13 to 17, 2023

- **Dr. K. Priyadarsini**– Course Completed in AWS Academy Graduate – AWS Academy Data Analytics – 03/07/2023

- **Dr. P. Rajasekar** – Completed in NPTEL Course –Introduction to Machine Learning (Tamil) to earn elite certificate. JUL – SEP 2023 (8 Weeks)

- **Dr. K. Panimalar**- Completed 16 days, "Faculty Induction training programme ", Directorate of learning and development, SRMIST

- **Dr. K. Panimalar**- Certified as Oracle Cloud Infrastructure 2022 Certified Foundations Associate, on 25th June 2023 with 82%

Digital Transformation using Industry 4.0 and Artificial Intelligence

In industry 4.0, Artificial intelligence (AI) incorporates a variety of technologies to allow hardware and software to understand, sense, act, and learn how to perform human tasks. AI in the manufacturing sector is a developing technology used to enhance productivity, improve product quality, and reduce expenditures. It is used to expedite our work by generating greater results with less laborious methods. The primary objective is to achieve automatic and decentralized computer operation, especially in cases where there are exceptions, inferences, or conflicting goals that require external input. The technologies that are driving industry 4.0 are IoT, Cloud computing, Edge computing, AI and machine learning and cyber security. The characteristics of smart factories are data analysis for optimal decision making, IT–OT integration, custom manufacturing and supply chain. The concepts of artificial intelligence (AI) and Industry 4.0 are interconnected due to increasing automation and the deployment of smart machines and smart factories, informed data helps to produce goods more efficiently across the value chain. AI algorithms assist businesses in forecasting market changes to optimize supply chains for production. It analyses macroeconomic and socioeconomic variables, position trends, status policies, environmental patterns, status policies, and consumer behaviour to estimate market needs. For improving prediction, artificial neural networks and deep learning are utilized to create asset failure forecasts. Finally, digital transformation through Industry 4.0 and Artificial Intelligence has the potential to revolutionize the way businesses operate. Companies can optimize their production processes, improve customer service, and remain ahead of the curve in a quickly changing environment by using the potential of AI technologies. It's time to embrace digital transformation and realise the full potential of Industry 4.0 and artificial intelligence.

Penned by
Dr.P.Suthanthira Devi

Notable Achievements

- **Dr.T.Veeramakali** – Delivered a Guest Talk on "Data Science for Beginners" at Sathyabama Institute of Science and Technology in Chennai, on August 30th , 2023.

- **Dr. K.Dhanasekaran** - acted as Technical Session Chair in a National level Technical Symposium ZORPHIX, held at Chennai Institute of Technology on 20-09-2023.

- **Dr A.Shobana Devi** - Delivered a session on as a resource person for the IEEE sponsored workshop on IOT and Big Data "Data Science for Beginners" at Venue Sri Sai ram Institute of Technology CSE Innovation lab in Chennai, on October 5th , 2023.

- **Dr K. Panimalar** - acted as Peer reviewer – Egyptian Informatics Journal

- **Dr.T. Nadana Ravishankar** - acted as Peer reviewer for Technology, Knowledge and Learning, International Journal of Computer for Mathematical Learning

- **Dr.T. Nadana Ravishankar** - edited book titled "Futuristic Trends in Network & Communication Technologies" with id "IIPV3EBS13_G09" which will be published by IIP.

- **Dr J. Jeba Sonia** - Reviewer at 9th International conference on Smart Computing and Communications (ICSCC 2023) , 17-19 August,2023, Kochi

- **Dr T. Karthick** - Organizer of Internal Smart India Hackathon 2023

Dr T. Karthick @ SIH 2023

Dr K. Dhanasekaran @ Chennai Institue of Technology

FACULTY PUBLICATIONS

- **Dr. S. Suchitra.** Customer Churn Prediction using Neural Networks and SMOTE-ENN for Data Sampling. 2023 3rd International Conference on Artificial Intelligence and Signal Processing, AISP 2023. ISSN: 2640-5768.

- **Dr. A. Chinnasamy.** Machine Learning Development in Solving Critical Medical Problems. 2023 International Conference on Inventive Computation Technologies (ICICT). ISBN: 979-835039849-6.

- **Dr. A. Chinnasamy.** Cloud Computing based Smart Traffic Management System with Priority Switching for Health Care Services. IEEE conference. ISBN: 978-166545630-2.

- **Dr. Hemavathi D.** Blockchain and IPFS: A Permanent Fix for Tracking Farm Produce. Revue d'Intelligence Artificielle. ISSN: 0992499X, Impact Factor: 0.665.

- **Dr. M. Prakash**. An Improved Convolution Neural Network and Modified Regularized K-Means-Based Automatic Lung Nodule Detection and Classification. Journal of Digital Imaging. ISSN: 1618-727X, Impact Factor: 4.903, SNIP: 1.64.

- **Dr. D. Rajeswar**i. Movie Reviews using Sentiment Analysis with Natural Language API. IEEE Xplore. ISBN: 979-8-3503-4779-1.

- **Dr. A. Shanthini.** Machine learning building on evaluation of feedback of engineering graduate students: A discriminant analysis approach. AIP Conference Proceedings. ISSN: 0094243X, Impact Factor: 0.262.

- **Dr. A. Shanthini.** Ovarian cancer detection in computed tomography images using ensembled deep optimized learning classifier. Concurrency and Computation: Practice and Experience. ISSN: 15320626, Impact Factor: 0.789.

- **Dr. J. Shobana.** Enhancement of IoT based Flood Detection and Prevention using Arduino UNO with WiFi Module. IEEE Conference 2023 9th International Conference on Advanced Computing and Communication Systems, ICACCS 2023 (pp. 2290-2294). ISSN: 2469-5556.

- **Dr. Elangovan.** Customer Churn Prediction Using Machine Learning Approaches. IEEE Xplore. ISBN: 979-8-3503-3436-4.

- **Dr. Prabhu kavin B.** An Enhanced CNN Model for Motor Imagery-Based Brain Computer Interface. IEEE Xplore. ISBN: 979-8-3503-3826-3.

- **Dr K. Shantha Kumari.** An application on Consent Based Monitoring of Healthcare statistics with Blockchain. IEEE Xplore. ISSN: 2473-2001.

FACULTY PUBLICATIONS

- **Dr. A. Shobana Devi.** PIRAP: Medical Cancer Rehabilitation Healthcare Center Data Maintenance Based on IoT-Based Deep Federated Collaborative Learning. International Journal of Cooperative Information Systems. ISSN: 2188430, Impact Factor: 1.5.

- **Dr. D. Prabhakar** Machine learning-driven pedestrian detection and classification for electric vehicles: integrating Bayesian component network analysis and reinforcement region-based convolutional neural net. Signal, Image and Video Processing. ISSN: 1863-1711, Impact Factor: 2.3.

- **Dr. SV. Shri Bharathi**. A Study on Blockchain Technologies for Security and Privacy Applications in a Network. International Journal of Electronics and Communication Engineering. ISSN: 2348-8549.

- **Dr. M. Sangeetha.** High Performance Cervical Cancer Detection Using Gradient Boosting Algorithm and Bayesian Optimization. IEEE. ISBN: 979-8-3503-2751-9.

- **Dr. Elangovan G.** A novel survival analysis of machine using fuzzy ensemble convolutional based optimal RNN. Expert Systems with Applications. ISSN: 9574174, Impact Factor: 8.5.

- **Dr. Kalpana A V.** An Intelligent Voice-Recognition Wheelchair System for Disabled Persons. 2023 International Conference on Sustainable Computing and Smart Systems (ICSCSS). ISBN: 979-8-3503-3360-2.

- **Dr. S. Suchitra.** AI-Based Invoice Payment Date Prediction for B2B. Lecture Notes in Networks and Systems. ISBN: 978-981-99-1479-1.

- **Dr. S. Suchitra.** A Robust Deep Learning Techniques for Alzheimer's Prediction. Lecture Notes in Networks and Systems. ISBN: 978-981-99-1479-1.

- **Dr. D. Rajeswari.** Posture Similarity Index (PSI) for Ergonomics Using Joint Angle and Neural Network. IEEE digital Explore. ISBN: 979-8-3503-1591-2.

- **Dr. D. Rajeswari.** Single Image Dehazing using Deep Neural Networks. IEEE digital Explore. ISBN: 979-8-3503-1591-2.

- **Dr. D. Rajeswari.** Cursive Handwriting Recognition Using Neural Networks with VGG-16. IEEE digital Explore. ISBN: 979-8-3503-1591-2.

- **Dr M. Anand.** Unintended Data Behavior Analysis Using Cryptography Stealth Approach Against Security and Communication Network. Mobile Networks and Applications. ISSN: 1572-8153, Impact Factor: 3.8.

FACULTY PUBLICATIONS

- **Dr K. Priyadarsini**. Blockchain Based Cross Chain Trusted Clinical Records Sharing System. International Journal of Intelligent Systems and Applications in Engineering. ISSN: 2147-6799.

- **Dr K Shantha Kumari.** Energy-efficient and sustainable communication in optical networks for eliminating path reservation criteria and providing guaranteed packet transmission between nodes. Journal of Neural Computing and Applications. ISSN: 1433-3058, Impact Factor: 6.

- **Dr N. Manikandan.** Task scheduling based on minimization of makespan and energy consumption using binary GWO algorithm in cloud environment. Peer-to-Peer Networking and Applications. ISSN: 19366442, Impact Factor: 4.2, SNIP: 1.17.

- **Dr K. Shantha Kumari.** Blockchain driven Evidence Management System. IEEE Xplore. ISBN: 978-3-031-27440-4.

Patent Granted

- **IOT BASED CAMERA FOR HEALTHCARE MANAGEMENT. Issuing Agency: Intellectual Property India.** Inventors : Dr. G. Premalatha, Dr. G. Elangovan, Dr. P. Kanmani, Mrs. K. Panimalar, Dr. V. Vijayalakshmi.

- **IOT based Product Origin Tracking and Scanning. Issuing Agency: Intellectual Property India.** Inventors :Dr. R. Jayaraj.

Our Faculty @ External events - Gallery

Dr T. Veeramakali @ Sathyabama Institute of Science and Technology

Dr R. Rajkumar @ SRMIST, Vadapalani

Dr R. Rajkumar in DD Pothigai

Best Wishes

Welcome to DSBS Family

Dr. A. Syed Ismail

Dr. John Deva Prasanna D S

Dr. P. Suthanthira Devi

Dr. S. Venkatesh

Mrs. R. Mythili

Mr. S. Praveen Kumar

Mr. N. Vasudevan

Ms. Harshini Pooja K

Mrs. B. Subashini

Mrs. Anna Anbumozhi

Mrs. D. Praveena Anjelin

Dr. Varun P

Dr. K.Rajkumar

Dr. A. Rehash Rushmi Pavitra

Dr. V.Kavitha

Dr. T.Ragupathi

We extend our warmest greetings to you and offer our heartfelt congratulations on becoming a valued member of our ever-expanding and vibrant team.
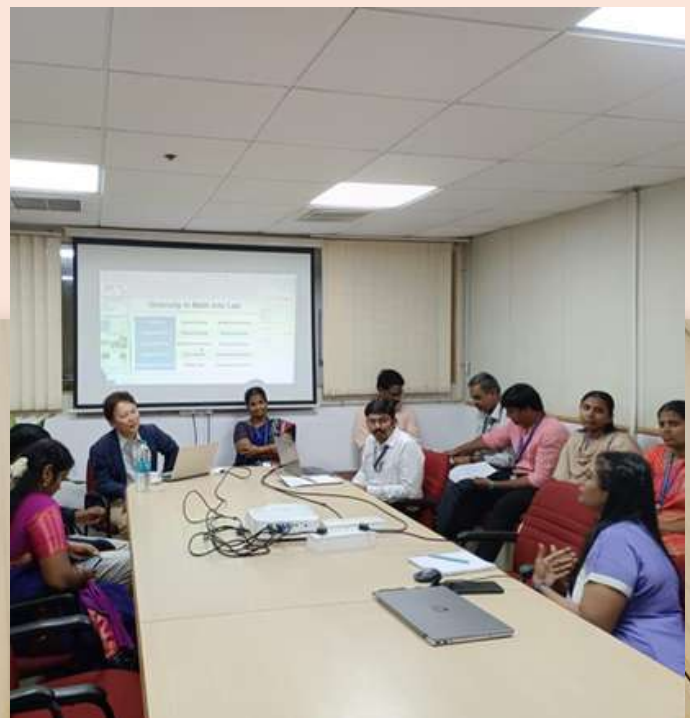
Alteryx Datathon

The @Eduskills Foundation collaborated with @Alteryx to organize the Virtual Escape Room Challenge (Alteryx Datathon) on September 19th, 2023. The event witnessed enthusiastic participation from 37 teams representing various universities.

The student team from the Department of Data Science and Business Systems at SRMIST showcased their expertise and emerged victorious with fifth place in the challenge. They excelled in various aspects, such as submitting the highest number of correct answers, using the least number of hints, and completing the challenge in the shortest time.

We extend our heartfelt congratulations to the students, Abhijeet Sharma, Sankha Subhra Ghosh, Ashish Arya, Shrey Sharma, and Amogh Pitale, who participated in this exciting event. As a token of appreciation, the students have received Alteryx merchandise from @Alteryx SparkED.

Data Science and Machine Learning Applications- Tech Talk

Prof. Kazushi Ikeda is an expert in the field of Data Analytics and Machine Learning and is currently working as Professor of Graduate School of Science and Technology, Nara Institute of Science and Technology (NAIST) Japan, and Visiting Professor, Data Science and Business Systems, SRM IST, India. The Department of Data Science and Business Systems organized a Student Interaction session and Technical Talk with Prof. Kazushi Ikeda on "Data Science and Machine Learning Applications" on August 14, 2023. Students gained insights about Indo-Japan collaboration opportunities in the broad area of Data analytics.

Blockchain Club - Student's Presence at Events

Web3 Conf GOA

Web3Conf is India's first chain agnostic conference, organized by the GirlScript Foundation. The event, which took place last year, attracted over 1500 web3.0 enthusiasts in Goa. The foundation supports tech education for beginners since 2017 and has impacted 500,000 learners. It has collaborated with over 250 global tech and social good companies. Web3Conf also hosts Web3 Villa Meetups, International NFT Day, Flow Hackathon 2023, and Winter of Blockchain.

Solana HackerHouse

The Solana Foundation x Jump x Circle Hacker House is a four-day event offering guidance from Solana Labs engineers and mentorship from other ecosystem teams. It includes educational programming, workshops, panels, and presentations on Solana, DeFi, and NFTs. The event provides ample time for project work, networking, and learning. The event is open to all builders who register early, with limited spaces.

Token 2049 Singapore

TOKEN2049 is a premier crypto event in Dubai and Singapore, bringing together the global Web3 industry, entrepreneurs, investors, developers, and media. It features a week of learning and networking, including meetups, workshops, hackathons, dinners, and parties in exceptional venues across Singapore, aiming to define the future of the Web3 ecosystem.

Internships @ NCCU, Taiwan

Department of Data Science and Business Systems, SRMIST signed MoU with Taiwan-India Joint Research Center on Artificial Intelligence, National Chung Cheng University (CCU), on Sep-2022. Based on the MoU the DSBS department established the Taiwan-India Big Data Analytics Living Lab. Also, through the MoU the students of SRMIST can avail internship at CCU for maximum 6 months and a minimum of 3 months @ Smart Living Research Center, CCU, Taiwan. Each SRMIST intern student will receive NT$12,000 per month for the total duration of internship. **Mr Rajdeep of DSBS and Mr. Harshit of CTECH** bagged internship through this MoU and currently pursuing their research works @ NCCU, Taiwan

Unfold 2023 hackathon - Second Prize in the Okto Track

Congratulations to our third-year students, Aadhya Mathur(CINTEL) and Pratham Bhatnagar(DSBS), from the School of Computing, SRMIST won the Second Prize in the Okto Track at the renowned Unfold2023 hackathon held in Bangalore from October 19th to 21st. They received a well deserved Cash Prize of 1000 Dollars (85000 INR). They developed an innovative platform that simplifies the process of distributing red envelopes on Telegram in a decentralised way.

Alumni Speaks – Priyanka Ravichandran [B.Tech -CSBS, 2023 Graduate]

It is with immense pleasure that I share my transformative journey at UC Berkeley, where I am pursuing my Master's in Analytics. The Master of Analytics program at UC Berkeley is more than just a degree; it is a gateway to a world of possibilities. From day one, I was immersed in an environment where the blend of rigorous analytics and real-world problem-solving was both challenging and rewarding. The professors, who are renowned experts in their fields, not only imparted knowledge but also encouraged us to apply what we learned to tackle complex, dynamic challenges. Their guidance and mentorship were instrumental in shaping my analytical skills. One aspect that sets UC Berkeley's program apart is its unwavering focus on hands-on learning. Throughout the program, we were tasked with a variety of projects and case studies that allowed us to work with real-world data, providing us with invaluable experience in solving practical problems.

I am immensely grateful to both my faculties and peers at SRM Institute of Science and Technology, who have been nothing but supportive throughout my journey to UC Berkeley. The strong foundation in analytics and practical knowledge I gained at SRM enabled me to excel in the fast-paced classes at UC Berkeley. This transition was made significantly smoother thanks to the skills and insights I developed during my time at SRM.

Alumni Speaks – Athish [B.Tech -CSBS, 2023 Graduate]

I am thrilled to share my educational journey as I transition from SRM Institute of Science and Technology, Kattankulathur, to Clemson University for my master's in computer science. My undergraduate experience, particularly within the Department of Data Science and Business Systems at SRMIST, has been profoundly impactful. At SRM, I had the privilege of not only obtaining a strong foundation in Computer Science but also developing a deep appreciation for the field of technology. The rigorous curriculum and the guidance of the faculty members at SRMIST were instrumental in shaping my academic interests and preparing me for the challenges that lay ahead.

What sets the Computer Science and Business Systems (CSBS) program apart is its unique ability to cultivate a deep understanding of the integration of computer science and the business aspect of it. Throughout my academic journey, I was encouraged to actively engage in hands-on projects, immerse myself in real-world case studies, and pursue internships. This practical exposure has not only prepared me for the workforce but also set the stage for my research endeavors. I delved into research during my 3rd Year, and as a result, I am proud to have authored five research papers.

During my tenure at SRM, I had the privilege of serving as the Convener of the Tech Team within The Directorate of Student Affairs at SRMIST. Additionally, I served as the Chairperson of SRM IET on Campus, a role that further enriched my leadership abilities. I also served as the Placement Coordinator for the Computer Science and Business Systems Course, assisting my fellow classmates in securing placements with esteemed companies. This experience was profoundly rewarding and underscored the unwavering support and guidance provided by the Dept. of DSBS.

I must express my gratitude to my professors and peers at the Department of Data Science and Business Systems for their unwavering support and encouragement. The knowledge and skills I acquired during my undergraduate studies have laid a strong foundation, enabling me to excel in my graduate program at Clemson. As I embark on this new phase of my academic career at Clemson University, I carry with me not only the technical prowess and research skills gained from SRMIST but also a unique perspective on technology's role in shaping the future of business.

MITACS Research Internship at Athabasca University

I'm excited to share my Mitacs Research Internship experience at Athabasca University, Alberta. I was able to join this opportunity by applying through the Mitacs portal, where I browse various projects aligned with my skills and interests. This process allowed me to select up to seven projects that resonated with my abilities. Alongside this, I had to complete a Mitacs form and provide my academic records and resume for consideration. Eventually, I was chosen to work under the mentorship of Professor Dr. Oscar Lin on the QuizMaster project, a Formative Assessment platform aimed at helping students identify their weakest learning objectives.

One of the most rewarding aspects of this experience was the collaboration with other bachelor's students at Athabasca University. The project allowed me to not only contribute to the field of educational technology but also to gain valuable insights into the world of academia.

In addition to my work on QuizMaster, I had the pleasure of meeting other Mitacs interns who were working with different professors across the university. Interacting with this diverse group of fellow researchers gave me a broader perspective on academic life and research. We all attended a conference at Athabasca University's main campus where we shared knowledge, exchanged ideas, and showcased the results of our research projects. It was a fantastic opportunity to collaborate with peers, receive feedback from experts, and further enrich my understanding of the academic world.

Beyond the academic aspect, Alberta offers an abundance of natural beauty and cultural heritage to explore. We took the opportunity to visit heritage places, museums, and national parks, allowing us to appreciate the province's rich history and scenic wonders.

In conclusion, my Mitacs Research Internship at Athabasca University was a well-rounded experience that combined academic growth, collaboration with fellow researchers, and the exploration of Alberta's cultural and natural treasures. Working on QuizMaster with Professor Dr. Oscar Lin was both a privilege and a significant learning experience, and attending the university conference expanded my horizons. The beauty and heritage of Alberta added an extra dimension to this unforgettable journey, leaving a lasting impact on my academic and personal growth.

Diptanshu Debnath
Final Year, U2 Section, BCT

My Transformational Journey with MITACS: Research, Discovery, and Personal Growth

Hello everyone!! I am **Utkarsh Yashwant Tambe** and my experience with MITACS Globalink Research Internship at University of Victoria, Canada under Civil Engineering department was nothing short of transformation. It offered me the opportunity to engage in latest technology, explore a new environment, and broaden my horizons. Throughout my MITACS journey, I gained valuable insights, formed lasting and valuable connections, and witnessed significant changes in my lifestyle and perspective.

The best part of my MITACS experience was the research I conducted. Working with a team of 1 dedicated research assistant, 1 research scholar and faculty itself, I delved deep into a project that held immense potential. The experience not only sharpened my technical skills but also gave sense of realisation that how CS concepts could be used to solve real-world problems of other domains. The collaborative nature of the research fostered an environment of innovation and continuous learning, making every day seriously an exciting challenge.

MITACS offered me exposure to the intersection of academia and industry, a vital aspect of real-world applications for research. This exposure was invaluable, as it allowed me to witness firsthand how research can drive technological innovation and solve complex, real-world problems. The connections I built through MITACS opened doors to opportunities that I hadn't previously imagined like interacting with fellow interns from top universities around the world and learning through their journey.

In conclusion, my MITACS experience was a life-changing journey that allowed me to explore, learn, and grow in ways I had never imagined. It not only advanced my research and career but also shaped my lifestyle and outlook on the world. MITACS is more than an academic program; it's a transformative experience that has left an indelible mark on my personal and professional life. The students aiming to pursue graduate studies abroad or aiming for research positions, I would definitely recommend you to apply for these type of internships as they give a perspective of how research-based problems are solved and parallelly help to make your resume strong!! All the best to future applicants!!

Utkarsh Yashwant Tambe
Final Year, BDA

DSBS Placement Cell Activities

Placement Team : Dr P. Kanmani , Dr. M. Ramprasad, Dr N. Manikandan, Mrs B. Yaosdha

- On 22/09/2023, **Placement doubt clearing session** was conducted for our Students and this event is coordinated by Dr N. Manikandan and Dr. P.Kanmani.

- **Social Media group for Interaction** was created on 20/09/2023, with Barclays and eligible Accenture students, coordinated by Dr N. Manikandan and Dr. P.Kanmani.

- **Alumni Mock Interview sessions for CSBS students** are scheduled for 27/09/2023–28/09/2023 and this event is hosted by Dr N. Manikandan and Dr. P.Kanmani.

- From 21/9/2023 to 25/09/2023, an evaluation of the **"Median of Two Sorted Arrays"** on HackerRank is conducted and this event is managed by Dr. M. Ramprasath and Dr. P. Kanmani.

- **Aptitude Model Questions Test** is conducted on 20/09/2023 supervised by Dr P.Kanmani and Dr. N. Manikandan.

- **Verbal Questions Test** is conducted on 21/09/2023 organized by Dr P.Kanmani and Dr. N. Manikandan.

- **HackerRank sessions on Data Structures and Design and Analysis of Algorithms** (DS and DAA) happened from 21.9.23 to 26.9.23, led by Dr. M. Ramprasath and Dr. P. Kanmani.

DSBS Placement Talk

- On September 20, 2023, a placement talk on "**Elevate Your Career: The Power of Strategic Placement Training**" was given by Mr . Krishna Ram, a Project Associate , Sets, Taramani, Chennai. Organized by Dr. J. Shobana and Placement team.

- On September 22, 2023, **"Placement assistance and Doubt Clearing Session" h**eld, and it is organized by the Placement Coordinators. The event was chaired by: i) Ms. M. Punithmathi, Packaged App Development Associate at Accenture, Chennai, and ii) Mr. Kasprov Arvin, Salesforce Developer at Accenture, Bangalore.

- On September 27, 2023, a talk in the theme **"Expert Perspective on Future of Industry and Emerging Technology"** was given by Mrs. Tejaswini S, a Senior Verification Engineer at NVIDIA Graphics Pvt Ltd in Bengaluru, Karnataka. . It is organized by Dr. M. Prakash, Dr. Arun Sundar, and Placement team

DSBS Placement Statistics [2023-24]

Placement Offers
- Marquee : 7
- Super dream : 43
- Dream : 46

Highest Package : 24 LPA

Gallery

DSBS Men's team in School of Computing Faculty FIT Sports 2023 event

1. Cricket – Winners
2. Relay 400M– Runners
3. Volleyball – Runners

காட்டாங்கொளத்தூர் எஸ்.ஆர்.எம். பல்கலைக்கழகத்தின் சார்பில் மாரத்தான் ஓட்டம் நடைபெற்ற போது எடுத்த படம்.

nai Murasu Private Ltd. from Sun Press, 246, Anna salai, Thousand Light, Chennai - 600006, TamilNa

DATA CHRONICLE

OFFICIAL NEWSLETTER
DEPARTMENT OF DATA SCIENCE AND BUSINESS SYSTEMS
SCO | SRMIST | CHENNAI

EDITORIAL TEAM
4TH FLOOR, UNIVERSITY BUILDING, SRMIST

Contact: dsbsnews@gmail.com

Oct 2023

How to use KuralBot ?

Tamil Poet- Tiruvalluvar
(2000 Years ago)

குறள் 517
இதனை இதனால் இவன்முடிக்கும் என்றாய்ந்து
அதனை அவன்கண் விடல்.

உரை
இந்தச் செயலை இக்கருவியால் இன்னவன்
செய்துமுடிப்பான் என்று ஆராய்ந்த பிறகே அத்
தொழிலை அவனிடம் ஒப்படைக்க வேண்டும்.

Meaning
A leader should be an expert in the delegation, and that is essential to scale up the work/initiatives/teams.