

SMRITI

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING





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HOD'S DESK



As we roll out another issue of “Smriti”, we are slowly trying to limp back to normalcy from the vagaries and uncertainties of the covid-19 pandemic. We all are like Abhimanyu in Mahabharata, not knowing how to come out of the consequences of Covid-19 on teaching-learning processes and in particular, the assessment.

I appreciate all the faculty members for handling the challenges of conducting the classes in hybrid mode. We were very happy to organize an Eminent speaker talk by Prof. Madhavan Mukund, Director of the Chennai Mathematical Institute. I appreciate the office-bearers of the ACM-W student chapter for their flawless efforts in organizing the same. It was very well-attended and appreciated by everyone.

I congratulate the faculty member Prabavathy for emerging as one of the three winners in the inaugural Teaching Video Challenge organized by the ACM India iSIGCSE(Special Interest Group on Computing Education). I wish her the best in her journey of dedicated teaching with innovative practices.

My appreciations to Thenmozhi and Bhuvana for bagging this year’s Best Teaching Awards. It was a lot of fun participating in the Teachers’ day cultural events such as sing-a-song and Anthakshari, having some light and fun-filled moments.

I congratulate Avinash Karthik of Final year and Joseph Amirtharaj of III year for winning the 1st rank among all participants in India and for securing 12th rank world-wide. I also appreciate the students Deepak Sriram, Harshavardhan and Kiranraj for securing 3rd rank in India and 51st rank worldwide. I want these students to train their juniors on competitive programming to uphold the healthy and active programming culture in our department.

I am also very proud to share the news that our students, Moniesh, SanyogKave, Srivathsav

and Partheban have won the second Runner-up of Rs. 50000 in the City Command with Maps and Locations Hackathon. Congratulations to all the students.

Congratulations to all the students who have received coveted job offers so far and best wishes for the remaining ones to land a job of their dreams soon.

I commend the office-bearers of Invente 2021 edition – Vignesh and his team – Faculty coordinators, Sujaudeen and Raghuraman and all the faculty members for successfully organizing Invente with an active participation from industries. Notwithstanding the virtual online mode, the participation in all the events was extremely good.

I commend our alumnus Sadhana Smrithi for getting the Best Outgoing Student award this year. It is very nice to see that she has excelled not only in academics, but also in co-curricular and extra-curricular activities. I wish her the best in her future endeavors.

Faculty colleagues and Students, we had some trying moments with our NBA accreditation and its aftermath. However, I strongly believe that we will emerge as a great force of reckoning from every adversity, if we all are united and focus all our energies in achieving common goals. Let us strive for that.

Dr. Chitra Babu
HoD/CSE

FACULTY ACTIVITIES

1. **Dr. G. Raghuraman** attended the Doctoral Committee Meeting of Ms.Manjupriya, Research scholar of Dr. Anny Leema, Vellore Institute of Technology (VIT), Vellore.
2. **Dr. V. Balasubramanian** attended the Doctoral Committee Meeting of Ms. VINODHINI M (VIT University).
3. **Dr. S. Kavitha** acted as Jury member for the 1st edition of HCL Jigsaw - India's Premier Critical Reasoning Platform on 01.08.2021.
4. **Dr. B. Bharathi** attended a DC meeting for the scholar Ms. Subha and Ms. Ranjana of SRM Institute of Science and Technology, Chennai.
5. **Dr. P. Mirunalini** attended First DC Meeting for a candidate at SRM Science and Technology for the part time research scholar : Mr. Inbaskaran G.
6. **Dr. S. Kavitha** attended a DC meeting at SRM on 30.08.2021 for registration confirmation of a Scholar Ms. R. Sangeetha, Supervisor Dr.D.Malathi, Professor, SRMIST.
7. **Dr. Chitra Babu** attended the syllabus subcommittee meeting of Anna university Information and Communication Engineering discipline to discuss the curriculum/syllabi of R 2021 B.E (CSE), B.Tech(IT) and B.E(Computer and Communications) programs on 7th August 2021.
8. **Dr. Chitra Babu** attended the Program committee meeting of ACM India annual COMPUTE conference on 18th August to discuss the tentative conference program.
9. **Dr. T. T. Mirnalinee, Dr. J. Suresh, Mr. B. Senthil Kumar and Mr. H. Shahul Hamead** conducted Internship Project Review Meeting for all the 31 Internship candidates in CSE department.
10. **Dr. S. Saraswathi** attended the Second DC meeting for the candidate Mr. Shankar D, of Dr. M.G.R. Educational And Research Institute, on 03-08-2021 virtually
11. The internal ISO audit for the CSE department was carried out by Prof. Pandikumar and Shajith of EEE department on 26th August 2021.
12. **Dr. Chitra Babu**, anchored the participative change management meeting on "Question Paper Audit Software" that has been developed to verify the compliance in terms of the usage of appropriate action verbs corresponding to various knowledge levels of Bloom's taxonomy and also to check the adherence of the proportion of k1/K2 and K3/K4 questions. This was part of the HoDs meeting that was convened on 14th August 2021.
13. **Dr. Chitra Babu**, attended the steering committee meeting of the ACM India's annual COMPUTE conference to discuss rescheduling the conference from October to November in view of some clashes in the organizing institute- Delhi University, on 31st

August 2021.

14. **Dr. Suresh J** attended as a member for the Doctoral Committee Meeting of scholar Ms Mahalakshmi, CSE of Saveetha School of Engineering, Saveetha University, on 04.09.2021. Meeting was conducted as offline at Saveetha School of Engineering, Saveetha University.
15. **Dr. G. Raghuraman** Attended the Comprehensive DC Meeting of Ms. Jothi Aruna, Research scholar of Dr. Anny Leema, on 22.09.2021 by 11.00 a.m, of VIT, Vellore.
16. **Dr. G. Raghuraman** Attended the Pre-Synopsis DC Meeting of Mr. D. Naveen Raju, Research scholar of Dr. J. Hariharan and Dr. R. Sasikumar, on 09.09.2021 by 3.00 p.m. of RMD Engineering College, Chennai
17. **Dr. S. Kavitha** attended a DC confirmation meeting on 16.09.2021 for the scholar at RMD Engineering College through online.
18. **Dr. G. Raghuraman** attended the DC Meeting of Ms.Felicita S A M, Research scholar of Dr. N. Deepa, on 02.09.2021 by 11.00 a.m, of VIT, Vellore.
19. **Dr.A.Chamundeswari**, Participated in first DC meet at SRM University.
20. **Dr. Y. V. Lokeswari** has attended a first DC meeting through online for the research scholar Shanthini S convened by the supervisor Dr. A. Chandrasekar, Prof, St. Joseph's College of Engineering on 24-September 2021 from 12:00 to 01:00 PM.
21. **Dr. K. Madheswari** has attended a first DC meeting through online for the research scholar Part time (External) Ph.D Research Scholar, Ms.Ann Mathew held on 3rd Sep, 2020 (Friday) at 12.00 noon convened by the supervisor Dr. Maria Jossy A, AP / ECE,SRMIST - Kattankulathur.
22. **Mr. B. Senthil Kumar** Presented the Faculty Internal Funded Project (Faculty-IFP) presentation 21-09-21.
23. **Dr. T.T. Mirnalinee**, Presented the project titled "Edge Computing based real time smart surveillance system".
24. **Dr. S. Kavitha** conducted Confirmation DC meeting for Full time scholar Ms. N. Sheerin Sitara on 24.09.2021 through online mode.
25. **Dr. R. Kanchana** developed a software for auditing the CAT question papers. The "Question Paper Audit Software - QPAS"can verify the compliance of the questions with appropriate action verbs corresponding to various knowledge levels of Bloom's taxonomy. It also checks the adherence of the proportion of K1/K2 and K3/K4 level questions.
26. **Dr. Chitra Babu**, attended the ACM India Internal engagement committee meeting regarding the activities of professional and student chapters on 4th September 2021.

27. **Dr. Chitra Babu**, attended the ACM India Education Committee meeting on 24th September 2021 to discuss regarding the Certificate Program in CS Teaching that is going to be launched by IIIT Delhi and supported by the ACM India.
28. **Dr. Chitra Babu**, attended the ACM-W council meeting on 25th Sep 2021 to discuss the upcoming activities such as coding contest, hackathon, Gard cohort and annual event
29. **Dr. Chitra Babu** attended a meeting on 22nd September 2021 with ACM India Executive Director Hemant Pandey and representatives from the TCS Research Labs regarding TCS Research co-branding quarterly webinars.
30. **Dr. Chitra Babu** along with Dr. R.S. Milton evaluated the projects that were submitted for potential internal funding on 21st September 2021.
31. **Dr. B. Bharathi** conducted the first DC Meeting for her full-time research scholar, Ms. S. Suhasini on 12.10.2021.
32. **Dr. R. Priyadharsini** served as a DC member for the first Doctoral Committee Meeting (Online mode) of scholar Ms J. Priya of Easwari Engineering College, Anna University, on 21.10.2021.
33. **Dr. J. Suresh & Dr. D. Venkatavara Prasad**, submitted a concept note titled, "Decentralization: Future of e-Governance for Panchayati Raj System in India", for the Research Funding Programme 2021, Azim Premji University, under the topic Local Democracy on 30th September 2021.
34. **Dr. Y. V. Lokeswari** has attended a first DC meeting through online for the research scholar Ms. Janani M convened by the supervisor Dr. A. Chandrasekar, Prof, St. Joseph's College of Engineering on 08-October-2021 during 02:00 PM.
35. **Dr. D. Thenmozhi** interviewed candidates on 12th and 27th October for the lab assistant position and junior executive position at SNU.
36. **Dr. K. R. Sarath Chandran** has attended SCIPE meeting on 11th October 2021 and demonstrated how Repl.it was used for conducting effective online lab sessions.
37. **Dr. S. V. Jansi Rani** served as a jury member in ACM Lady Ada Programming Contest conducted on 23/10/2021.
38. **Dr. B. Bharathi** attended DC meeting for a scholar at SSN College of Engineering.
39. **Dr. B. Bharathi** was invited to set the question paper for Data structures at Sona College of Technology, Salem.

WEBINARS / SEMINARS ATTENDED

1. **Dr. G. Raghuraman, Dr. N. Sujaudeen**, attended ACM India Webinar Series on Education: "Data Science and Astrology: Is There a Difference?" by Prof. Jayant Haritsa of the Department of Computational and Data Sciences, Indian Institute of Science, Bangalore on 17th Jul 2021.
2. **Dr. R. Kanchana** attended a research seminar on "Biometrics - Partial Fingerprint Recognition" by Dr. Ram Prasad K, AP, CSE, SNU Chennai organized by the SNU, Chennai.
3. **Dr. Chitra Babu** attended the ACM India Industry webinar titled "Secure Machine Learning: Opportunities, Advances and Challenges" by Mr. Nishanth Chandran of Microsoft Research Labs on 14th August 2021.
4. **Dr. Chitra Babu** attended the webinar organized jointly by ACM India and iSIGCSE chapter on "Design of Healthcare 4.0 Platform Models" by Prof. N. Viswanadham, Indian Institute of Science on 21st August 2021.
5. **Dr. V. Balasubramanian** attended a webinar titled "Enhancing research productivity in doctoral program: A project life cycle perspective" on 14.8.21.
6. **Dr. V. Balasubramanian**, attended a Webinar titled Release of GATE Preparation Portal on 14.10.21 at 10.00 AM.

ONLINE KNOWLEDGE BASE....

1. **Dr. Betina Antony J**, Completed the course 'Python for Data Science and Machine Learning Bootcamp' in Udemy.
2. **Dr. Betina Antony J**, completed 8 week NPTEL course on " Programming, Data Structures And Algorithms Using Python".
3. **Ms. M. Saritha**, completed an online course "Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning" authorized by DeepLearning.AI offered through Coursera.
4. **Dr. S. Manisha**, has successfully completed a course "Ask Questions to Make Data-Driven Decisions" authorized by Google and offered through Coursera on 9th Oct 2021.

WEBINAR / SEMINAR/ GUEST LECTURE ORGANIZED

1. **Dr. R. Kanchana** organized a guest lecture on How To Get Top Rated Higher Education & Technical Profile Building on 7th Aug 2021.
2. **Dr. K. Madheswari, Dr. N. Sujaudeen and Dr. K. R. Sarath Chandran**, organized the webinar titled "Cracking the code for MS/PhD admissions! " by Mr. Aashish (SSN Alumni 2021 batch) is an incoming Informatics PhD student at Penn State University under the banner of "ACM, IEI & ACM-W Student Chapters" on August 2nd, from 6 PM to 7 PM.
3. **SSN ACM-W Student Chapter** organized a webinar titled "Fantastic ML Models and How to Deploy them!" on August 24th, from 9 AM IST.
4. **Dr. Chitra Babu**, hosted a webinar on 11th Sep 2021 that was organized under the banner of ACM India and iSIGCSE Chapter. This webinar was given by Prof. Padmanabhan Seshaiyer, George Mason University, Fairfax, Virginia, USA on the topic "Fostering an inclusive computing culture".
5. **Dr. Chitra Babu, along with SSN's ACM, ACM-W Chapters, ACM Chennai and ACM-W Chennai professional Chapters** organized an ACM India Eminent Speaker Program(ESP) talk by Prof. Madhavan Mukund, Director, Chennai Mathematical Institute on the topic "Replicated Datatypes: From Practice to Theory" on 29th September 2021.

WORKSHOPS /FDPs ATTENDED

1. **Dr. R. Kanchana** attended a five-day ATAL FDP on Leadership Excellence organized by IIM, Ahmedabad during 9-13 Aug 2021.
2. **Dr. R. Kanchana, Ms. M. Saritha** attended a two-day FDP on Mathematical Foundations for ML and Data Science organized the Dept of IT, SSNCE during 13-14 Aug 2021.
3. **Dr. V. Balasubramanian** attended a workshop titled "HINDRANCE FACED BY THE ENTREPRENEURS" by IIC on 28.8.21.
4. **Dr. R. Priyadharshini, Ms. S. Rajalakshmi, Dr. K. R. SarathChandran, Dr. N. Sujaudeen, and Ms. S. Lakshmi Priya** attended online FDP and student workshop on Digital Trends and Technologies organized by TCS on 31st of August 2021.
5. **Dr. J Suresh**, attended One-week online ATAL FDP on " FDP on "Predictive Modelling

Using Data-Science Techniques" from 06/09/2021 to 10/09/2021 at Indian Institute of Technology Guwahati.

6. **Dr. J Suresh** attended a 30 Hours Online Instructor-led Training and FDP on "Deep Learning & Computer Vision in Image & Video Data Analysis" from 17th August 2021 to 2nd Sep 2021, organized by EduxLabs in association with E-Cell IIT Hyderabad.
7. **Dr. J. Suresh** attended a 30 Hours Online Instructor-led Training and FDP on "Blockchain Technology & Full Stack DApp", from 11th October 2021 to 28th October 2021, organized by EduxLabs in association with E-Cell IIT,Hyderabad.
8. **Dr. R. Kanchana, Dr. V. Balasubramanian, Ms. S. Rajalakshmi, Ms. S. Lakhmi Priya,** attended a ACM Eminent Speaker Program Talk by Dr. Madhavan Mukund on 29.9.21.

INDUSTRY COLLABORATION

1. **Dr. V. Balasubramanian**, interacted with L&T EduTech Ensemble Team on 24.8.21 at 11.00 AM.
2. **Dr. Chitra Babu**, attended a meeting with the founders and representatives of the company LeanCloud and listened to the presentations made by 5 of our interns on 6th August 2021 regarding the work done by them during the summer. The feedback from Leankloud was very positive about our students.
3. **Dr. Chitra Babu, Dr. V. Balasubramanian, and Dr. K. Madheswari** attended a meeting with Mr. Azhagu Pandia Raja, Chennai City innovation officer of the Chennai Innovation Hub regarding a potential opportunity to host a hackathon along with the Principal, Head of the IT department and the alumni association president Mr.Narendran who works in Mr. Cooper.
4. **Dr. Chitra Babu**, discussed with the Caterpillar team along with the faculty member **Dr. K. Valli Devi** and the students regarding the consultancy project on "Extracting custom metrics from the Azure DevOps Environment" on 3rd and 22nd September 2021.
5. **Dr. Chitra Babu** discussed with the Caterpillar technical team along with **Dr. V. S. Felix Enigo** and the students regarding the consultancy project, "A Mobile App for Downloading the files that are part of a zip file and storing in a database" on 3rd September 2021.

PAPER REVIEWS

1. **Dr. D. Thenmozhi** reviewed a paper for the journal Computer Speech and Language-Elsevier on 17th August 2021.
2. **Dr. A. Beulah**, reviewed three papers for Circuits, Systems and Signal Processing, Springer journal.
3. **Dr. D. Venkatavara Prasad**, reviewed a for AI 4 Cyber Security & Forensics 2021 on 24-8-2021.
4. **Mr. B. Senthil Kumar**, reviewed a for the TALLIP, Transactions on Asian and Low-Resource Language Information Processing.
5. **Dr. T. T. Mirnalinee**, reviewed 2 papers for FIRE 21.
6. **Dr.A.Chamundeswari**, reviewed the conference paper, ANTIC 2022, Hindu Benaras University, Varanasi, UP.
7. **Dr. Chitra Babu**, served as a reviewer for the conference, International Conference on Distributed Computing and Internet Technology(ICDCIT).
8. **Mr. B. Senthil Kumar**, Reviewed papers for the International Conference at BHU, ANTIC-2021
9. **Dr. K. R. Sarath Chandran**, reviewed an article for "AI 4 Cyber Security & Forensics 2021" on 08/09/2021.
10. **Dr. B. Prabavathy**, Reviewed a paper for IEEE Transactions on Artificial Intelligence.
11. **Ms. S. Rajalakshmi** reviewed a paper for 3rd IEEE Bombay Section Signature Conference (IBSSC-2021), is an international conference organized by IEEE Bombay Section and ABV-IIITM Gwalior, India. (IBSSC-2021).
12. **Dr. B. Bharathi**, reviewed three papers for Sentiment Analysis for Dravidian Languages in Code-Mixed Text FIRE'21, 13-17th December 2021.
13. **Dr. D.Venkata vara Prasad** reviewed a paper for Concurrent Engineering Research and Applications on 22-10-2020.
14. **Dr. J. Bhuvana** reviewed a paper for the IEEE Transactions on Artificial Intelligence.
15. **Dr. J. Bhuvana** reviewed 3 papers for FIRE 2021.
16. **Dr. J. Suresh** reviewed a paper for Automatika: Journal for Control, Measurement, Electronics, Computing and Communications.

FACULTY PUBLICATIONS / PAPER PRESENTATIONS

1. **Dr. S. V. Jansi Rani, Mr. P. Senthil Kumar, Dr. R. Priyadharsini, S. Jahnvi Srividya, S. Harshana** published a paper titled " Automated weed detection system in smart farming for developing sustainable agriculture" International Journal of Environmental Science and Technology, Clarivate, IF:2.86, 10.1007/s13762-021-03606-6.
2. **Dr. P. Mirunalini, Dr. Thenmozhi Durairaj, Jaisakthi Seetharani Murugaiyan, Vignesh kumar Muthukumar** published a paper titled, " Fish species recognition using transfer learning techniques " in International Journal of Advances in Intelligent Informatics, vol.7 No:2, 188-197, 2021, Scopus, IF: 0.18.
3. **N. Sheerin Sitara and Dr. S. Kavitha**, published an International Conference paper titled as "SSN MLRG at VQA-MED 2021: An Approach for VQA to Solve Abnormality Related Queries using Improved Datasets" at CLEF2021. <http://www.dei.unipd.it/~ferro/CLEF-WN-Drafts/CLEF2021/>.
4. **Avantika Balaji, S. Ganesh, T. Abishek Balaji and Dr. K. R. Sarath Chandran** presented a paper titled " Shot Boundary Detection and Video Captioning Using Neural Networks" in Fourth International Conference on Big data and Cloud Computing (ICBDCC21 - Springer) conducted during 20 - 21 August 2021 organized by Karunya Institute of Technology & Sciences, Coimbatore.
5. **Ms. Rajalakshmi Sivanaiah, Ms. Angel Deborah S, Dr. R. S Milton Rajendram, Dr. Mirnalinee T T, Abrit Pal Singh, Aviansh Gupta, Ayush Nanda** , "TECHSSN at SemEval-2021 Task 7: Humor and Offense detection and classification using ColBERTembeddings", Proceedings of the 15th International Workshop on Semantic Evaluation (SemEval-2021), pages 1185–1189 Bangkok, Thailand (online), August 5–6, 2021. ©2021 Association for Computational Linguistics.
6. **Akilan K, Anusha Chandrasekaran, Arunesh Kumar, Jashwaan S B, Joshua A, Ms. Rajalakshmi S, Ms. Angel Deborah S**, "Customized Internet of Things based Bus Tracking and Management System", In Proceedings of Fourth International Conference on Big-Data and Cloud Computing (ICBDCC'21), conducted by Karunya Institute of Technology & Sciences, Coimbatore, on August 20 & 21, 2021 will be published in Springer - Lecture Notes in Electrical Engineering series.
7. **Karthik Desingu, Dr. Mirunalini Palaniappan and Jitesh Kumar** published a paper

- titled "Snake Species classification using Transfer learning Technique ", In 11th CLEF conference, CLEF 2020 Working Notes, Vol.2936, paper 133. pp.1571-1578, Sep 22-25, 2020.
8. **Dr. J. Suresh, and Sathya MADHUSUDHANAN** published a paper titled "Polarity classification of social media feeds using incremental learning - A Deep Learning Approach" in IEICE TRANSACTIONS on Fundamentals of Electronics, Communications and Computer Sciences (Clarivate).
 9. **Karthika Menon, V. Khushi Bohra, Lakshana Murugan, Kavya Jaganathan, Dr. Chamundeswari Arumugam,** COVID-19 Diagnosis from Chest X-Ray Images Using Convolutional Neural Networks and Effects of Data Poisoning. In: Gervasi O. et al. (eds) Computational Science and Its Applications – ICCSA 2021. ICCSA 2021. Lecture Notes in Computer Science, vol 12957. Springer, Cham. https://doi.org/10.1007/978-3-030-87013-3_38.
 10. **Sowmya Ramesh, Subhiksha Selvarayan, Kanishq Sunil, Dr. Chamundeswari Arumugam,** An Adaptive Multi-layered Approach for DoS Detection and Mitigation. In: Gervasi O. et al. (eds) Computational Science and Its Applications – ICCSA 2021. ICCSA 2021. Lecture Notes in Computer Science, vol 12957. Springer, Cham. https://doi.org/10.1007/978-3-030-87013-3_40/.
 11. **Dakshinamoorthy Karthikeyan, Babu Aravind Sivamani, Pavan Kalyan Tummala, Dr. Chamundeswari Arumugam,** Time Series for Forecasting Stock Market Prices Based on Sentiment Analysis of Social Media. In: Gervasi O. et al. (eds) Computational Science and Its Applications – ICCSA 2021. ICCSA 2021. Lecture Notes in Computer Science, vol 12955. Springer, Cham. https://doi.org/10.1007/978-3-030-87007-2_25.
 12. **Karthik Viswanath S, Naveen L, Ananda Raj, Ms. Rajalakshmi S, Ms. Angel Deborah S,** Abstractive text summarizer: A Comparative study on dot product attention and cosine similarity, Fourth IEEE International Conference on Electrical, Computer and Communication Technologies(ICECCT 2021), Velalar College of Engineering and Technology, Erode, Tamil Nadu, INDIA during 15-17, September 2021. Proceedings of ICECCT 2021 will be published in IEEE Xplore.
 13. **Ayush Nanda, Abrit Pal Singh, Aviansh Gupta, Ms. Rajalakshmi Sivanaiah, Ms. Angel Deborah Suseelan, Dr. S Milton Rajendram, Dr. Mirnalinee T T,** "TECHSSN at

HAHA @ IberLEF 2021: Humor Detection and Funniness Score Prediction using Deep Learning Techniques", Proceedings of the Iberian Languages Evaluation Forum (IberLEF 2021), co-located with the Conference of the Spanish Society for Natural Language Processing (SEPLN 2021), XXXVII International Conference of the Spanish Society for Natural Language Processing. Málaga, Spain, September, 2021. pp 814-820.

14. **Dr. Chitra Babu**, published a paper titled "Investigating Federated Learning strategies for Pneumonia Image Classification" in the IEEE MIT Undergraduate Research Technology Conference(URTC), October 8-10, 2021.

EXTERNAL RECOGNITION

1. **Dr. Chitra Babu**, has been appointed by the vice-chancellor of Anna University as a member of the BoS for the constituent colleges and the non-autonomous affiliated colleges in the Information and Communication engineering stream. She attended the BoS meeting on 30th September 2021 to discuss the 1st year curriculum and syllabi for R 2021.
2. **Dr. V. Balasubramanian** elevated as ACM Senior Member.
3. **Dr. B. Prabavathy** has been selected as one of the three winners in the ACM iSIGCSE inaugural Teaching Video Challenge.

https://isigcse.acm.org/challenges/challenge_first



Dr. B. Prabavathy

INVITED LECTURES

1. **Dr. D. Thenmozhi** Delivered a talk on "How to write Tamil articles using Overleaf" in a workshop organized by Sri Krishna College of Arts and Science in collaboration with PSGR Krishnammal College of Arts and Science on 14th August 2021.
2. **Dr. K. Vallidevi** delivered a talk in the AICTE approved Atal FDP on 21st September, 2021 on the topic "Augmented and Virtual Reality with Artificial Intelligence". This FDP was conducted by SNS College of Engineering, Coimbatore.

TEACHER'S DAY CELEBRATION

1. **Dr. D. Thenmozhi and Dr. A. Chandrasekharan** organized Anthakshari event on 6th August 2021 as part of SSN staff cultural.
2. **Dr. D. Thenmozhi and Dr. A. Murugesan** organized Sing a Song event on 19th August 2021 as part of SSN staff cultural.
3. **Dr. R. Kanchana** participated in Anthakshri programme on 6th Aug 2021 conducted as a part of cultural for the faculty members in view of the Teachers day 2021 at SSNCE.
4. **Dr. Chitra Babu**, participated in Anthakshari event that was conducted as part of the Teacher's day celebrations on 6th August along with Mr. A, Balasubramanian of EEE and Dr. K. Babu of Mech and won first prize.
5. **Dr. Chitra Babu**, Participated in the "Sing a song" event that was organized as part of the Teachers' day celebrations on 19th August 2021.

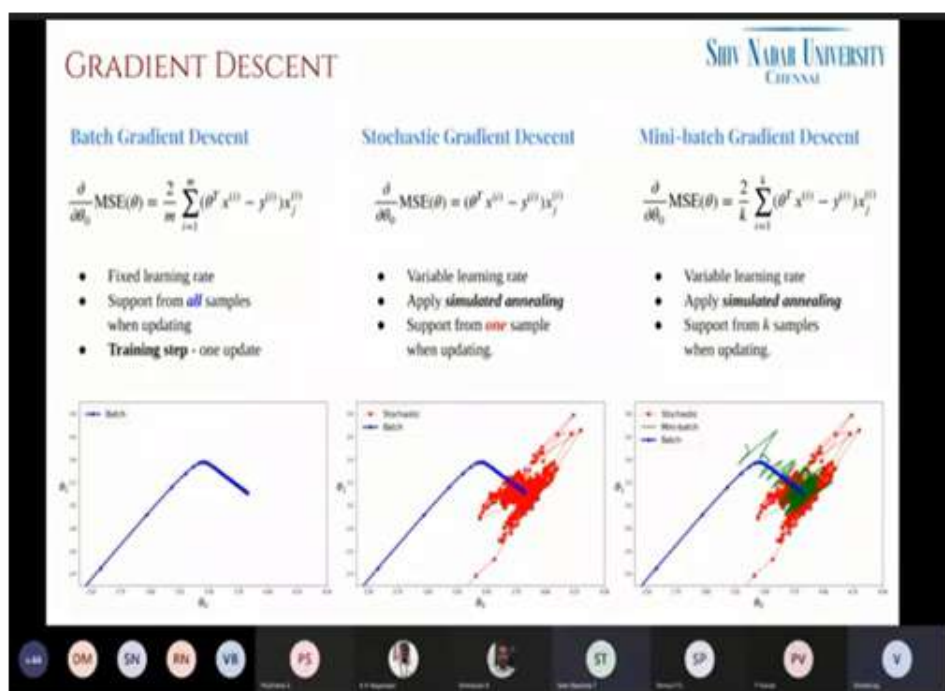
Dr. D. Thenmozhi and Dr. J. Bhuvana received the First and Second Prizes respectively for the Best Faculty CSE (AY 2019-2020)



WORKSHOP ON MATHEMATICAL FOUNDATIONS FOR MACHINE LEARNING & DATA SCIENCE

A two-day International Workshop on "Mathematical Foundations for Machine Learning & Data Science" was virtually organized by Department of Information Technology, SSN College of Engineering with IEEE Computer Society during 13-14 August, 2021. I found this workshop very helpful to understand the math behind data science and machine learning. The workshop started with the introductory talk on machine learning by Dr. Ram Prasad K, Assistant Professor, Shiv Nadar University, Chennai. The machine learning topics namely regression, classification, clustering, and dimensionality reduction were discussed with simple problems. He also listed the tools and the environment in which the machine learning tasks can be carried out. The following talk was on the different distance metrics delivered by Dr. R. Srinivasan, Professor, SSN College of Engineering. The talk was quite inspiring which made us to view the distance metric in different perspectives. The next day, an interesting talk was delivered by Dr. Lakshmi J Mohan, Research Fellow, RMIT University, Australia on "Reliability in big data storage with erasure codes". She discussed the challenges faced due to data node failures in the distributed system and how erasure codes were employed for better recovery. At the end of the day, the concepts of linear regression were explained mathematically by Dr. Ram Prasad K and the demo of a regression problem was shown using Python programming.

Ms. M. Saritha
Assistant Professor



DEEP LEARNING AND COMPUTER VISION ON IMAGE & VIDEO

I attended an FDP on Deep Learning and Computer Vision on Image & Video, organized by EduxLabs in association with IIT Hyderabad from 17th August - 2nd September 2021 (Online 3 Hours / day).

This programme focused mainly on topics related to deep learning and how to apply it in applications dealing with image and video processing. The programme started with, introduction to machine learning, then we had a hands on tutorials in core python and how to visualize data. Then presenters introduced the glimpse of image transformation, face detection using Haar Cascade, KNN, Logistic Regression. Overall in this programme, we learned about i) concepts of artificial neural networks, ii) deep learning using Tensorflow and Keras, iii) image segmentation using R-CNN and iv) U-Net architecture.

Dr. J. Suresh
Asso. Prof. / CSE

PREDICTIVE MODELLING USING DATA-SCIENCE TECHNIQUES

I have attended a faculty development programme on Predictive Modelling using Data Science Techniques, organized by Department of Mathematics, IIT Guwahati from September 6 - 10, 2021.

As we know predictive modelling refers to the process of using data and models to make prediction. It has a wide domain of application in academic research such as predicting computer network traffic, geographical data, health-analytics, disease-surveillance, self-driving cars, robotics, etc.

Goal of this FDP is to introduce the classical and modern machine learning tools used in predictive analysis. In this FDP, they focused on these topics, i) imparting theoretical and hands-on knowledge of predictive modelling techniques, ii) Understanding the application of predictive analytics in various research fields and iii) Comprehend current industry trends in the field.

Dr. J. Suresh
Asso. Prof. / CSE

CITY COMMAND WITH MAPS AND LOCATION HACKATHON

City Command with Maps and Location Hackathon was organized by Mitsubishi Cooperation India Pvt limited, NEC Cooperation India Pvt Limited and Here Technologies on 25th-26th September 2021. The hackathon deals about solving the problems happening on city roads. We were eager and participated in the hackathon.

About 1500 teams with 5000+ different age groups participated in the event and 21 team's ideas were shortlisted for the prototype round. After two rounds of shortlisting involving idea pitches presentation and implementation in the finals, We won the Second runner-up prize of Rs. 50000. We built a web app MPS Maps with a motto to reduce accidents in cities. The app shows live traffic & weather details as well as reports accident across the city.

We learnt a lot of key things during the whole contest like how to talk out loud and express our idea clearly to the juries. It was a great learning experience for us. We are looking forward to implement more such projects that could solve real life problems in our lives.

Moniesh R 3rd year - Leader

Sanyog Kave P 3rd year

Srivathsav M 3rd year

Partheban KV 3rd year



PITCH PERFECT 2.0



I was overwhelmed when I was selected as the “Winner” of Pitch Perfect 2.0 Competition Organized by VIT, Vellore. It was a moment of extreme joy as my hard work paid off. I was excited at first because I competed with over 100+ teams and managed to be a part of the finalists but at the same time I feel relieved to see that I have developed Idea Presentation skills. To delve deeper, here is a brief of my Pitch Perfect 2.0- Idea-thon Journey.

I love participating in case study competitions and ideations. So, I usually explore Dare2Compete to stay updated on the various opportunities and Competitions. When I saw the Pitch Perfect 2.0 competition banner organized by VIT, Vellore and read details about it. I knew this is not worth missing. The event comprises 3 engaging rounds that aim to test the knowledge of understanding the problem statement and Problem solving abilities of the participants. There were almost hundreds of teams participating from the top universities. I was utterly motivated to see where my skills ranked among them. “Innovative AI” is my team name.

Once the competition started and the problem statements were rolled out, I explored each of them thoroughly. Initially, I had some minor conflicts regarding the selection of the problem statement and Idea Presentation. But, Dr. Kavitha mam’s teachings of Machine learning concepts kindled my interest towards “Medical Image Processing and Machine Learning Techniques” Therefore, I decided to take the “Machine Learning” domain. After finalizing the problem statement, it was completely a roller coaster ride, I spent hours on the meets to discuss the concepts with the person whom I knew are very strong in AI/ML domain.

First round is Abstract Submission. In the First round we were asked to submit a document containing the abstract solution within 5 hours. We were given set of domains, I chose Medical Image processing. Results of the first round was declared on 29th Sept 2021. I was selected for the second round, the selected participants were asked to submit a detailed report of their proposed solution within the allotted time. After the scrutiny in second round, I was selected for the final round. In the final round all shortlisted teams were asked make presentation through video conferencing. The most challenging phase was the day before the report submission when everything was working smoothly but suddenly a lot of unexpected errors appeared on running the file. However, I soon figured out the problem caused due to the update of the application and fixed it.

Another challenge was communication and tracking progress. Synchronizing online meets was a matter of concern. So, I decided to keep short meetings with my friends to discuss about my updates and flaws. This preparation helped me to do the final video conference round with much satisfaction. Once I would I like to thank Kavitha mam for teaching the way to write and present a technical paper. I also thank Hod mam and Prasad sir for encouraging me to participate in these competitions.

The competition was extremely good in terms of judgment, organization, and framing. Above all, I must say that it's extremely important to take part in such competitions because it gives us the scenario and knowledge behind the problem statements. I learned about different ways to present ideas and how to tackle questions. I am so glad that I made it to the top 8 out of so many submissions from top colleges. The moment when I was informed about becoming the Finalists after competing with hundreds of teams, shall always remain exceptional!

Sudharsan S

M.E (CSE) Final Year

CRACKING CODE FOR MS

On the evening of August 4th, 'Cracking Code for MS' was a webinar conducted by the SSN ACM-W student chapter to guide the students to make it to their dream colleges abroad for master and PhD. The speaker was Aashish, a graduating student from the Department of Computer Science, SSN College of Engineering in the class of 2021. He delivered a one hour session engaging the students guiding them on the various processes to their respective fields of interest.

Aashish is an incoming informatics Phd student at Penn State university. Joining the PIKE research lab at Penn State, his research interests are in the area of deep learning and computer vision. He has also interned at ford motors and multiple other startups.

Starting off, Aashish spoke about the Pre-Qualification details such as but not limited to, the various entrance examinations like TOEFL, GRE. Furthermore, the program selection process was explained by him where he gave insights on how to choose the right program based on various factors like College, faculty research ranking, program rankings, course specializations etc. Clearly defining on the students research interests was a key takeaway in terms of program selection, PhD specific.



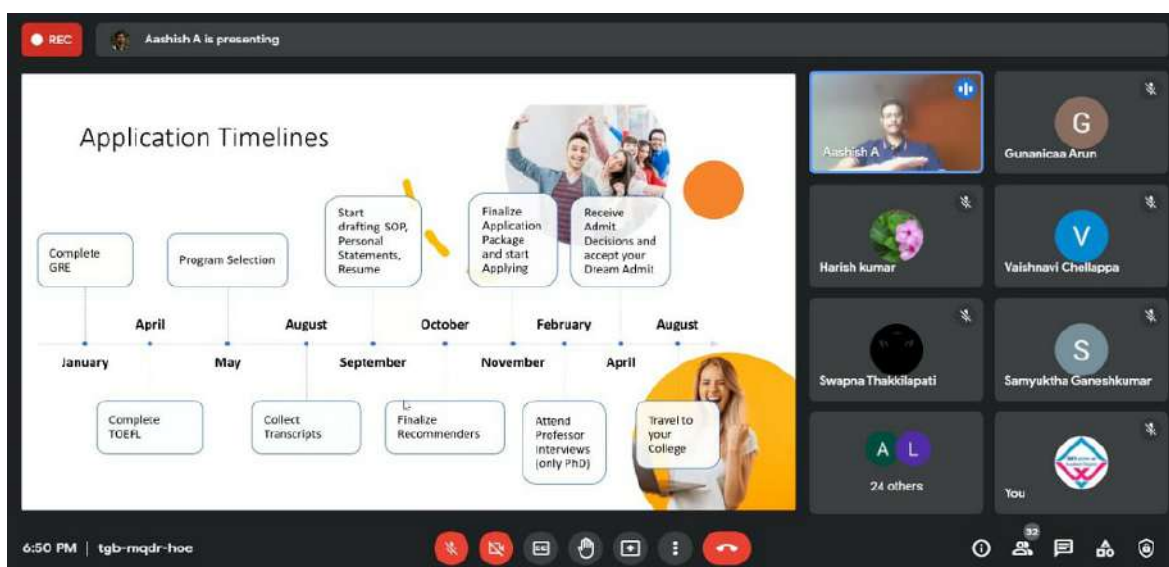
In addition to the previous mentioned details, the session also highlighted the application package, Scholarships, and the application process as a whole. Under the application package part, Aashish explained in detail about the various requirements like the personal statement, CV, statement of purpose and letter of recommendation.

Not only did the speaker explain in detail about the above mentioned requirements, but also gave us great insights about various scholarships and financial aid. The application timeline flowchart clearly represented the various steps to be taken at the right time.

The session ended with an enthusiastic Question and Answer session where the speaker clarified all the questions the students had posted. The event was conducted for departments across all years.

With first hand experience on the admission process of top US universities, Aashish joined us to give his take on how to make students' profile stand out and receive their dream masters/phd admit.

The event was a grand success with over 70+ students, where students received useful guidance for doing masters!



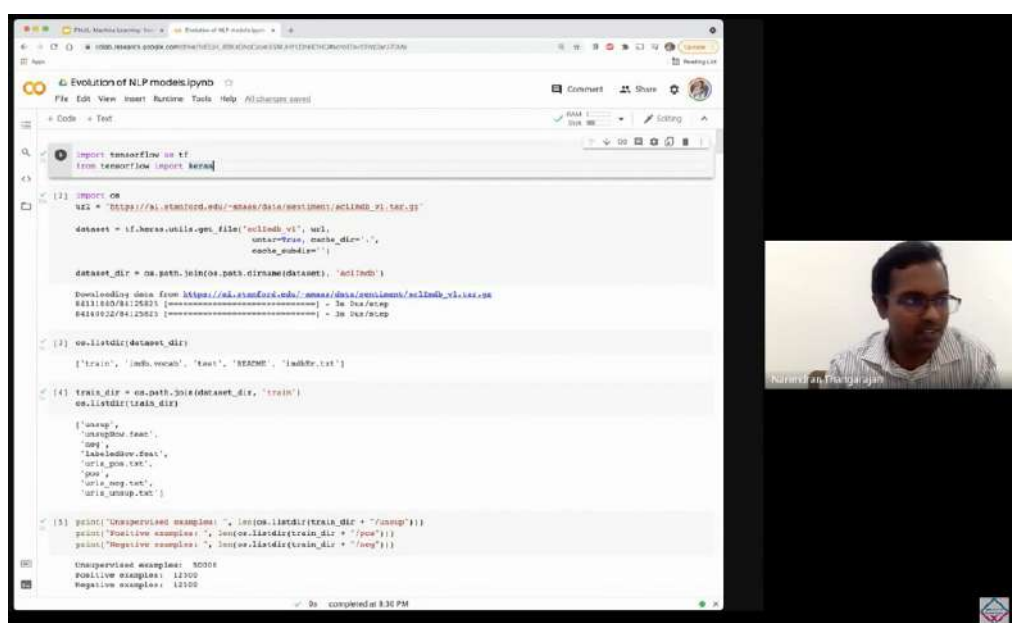
-- ACM-W Office bearers

FANTASTIC ML MODELS AND HOW TO DEPLOY THEM!!

This workshop was conducted by the ACM-W Student Chapter at SSN, with over 150 second year and third year students. It was held on 24th of August, open to all our students. Participants thoroughly enjoyed the one-hour interactive session conducted by an alumnus, Mr. Narendran Thangarajan.

Narendran Thangarajan graduated from SSN College of Engineering in 2012. Since then he has worked on RPC frameworks at eBay, built large-scale distributed software systems for authentication at Google and currently works as an Applied Researcher at Google where he builds and deploys state-of-the-art NLP models in the Google Assistant. He has a masters degree in Computer Science from the University of California, San Diego and is currently based in the San Francisco Bay Area in California.

The speaker first enlightened the participants as to why ML is the talk of the town. After going through some of its applications, he explained where ML fits in a traditional software. The talk further elaborated on how the ML model is trained using real-world examples. He then converged onto one example, a movie review model and went about the problem step by step, thus depicting what obstacles are met and how they can be solved while training the model.

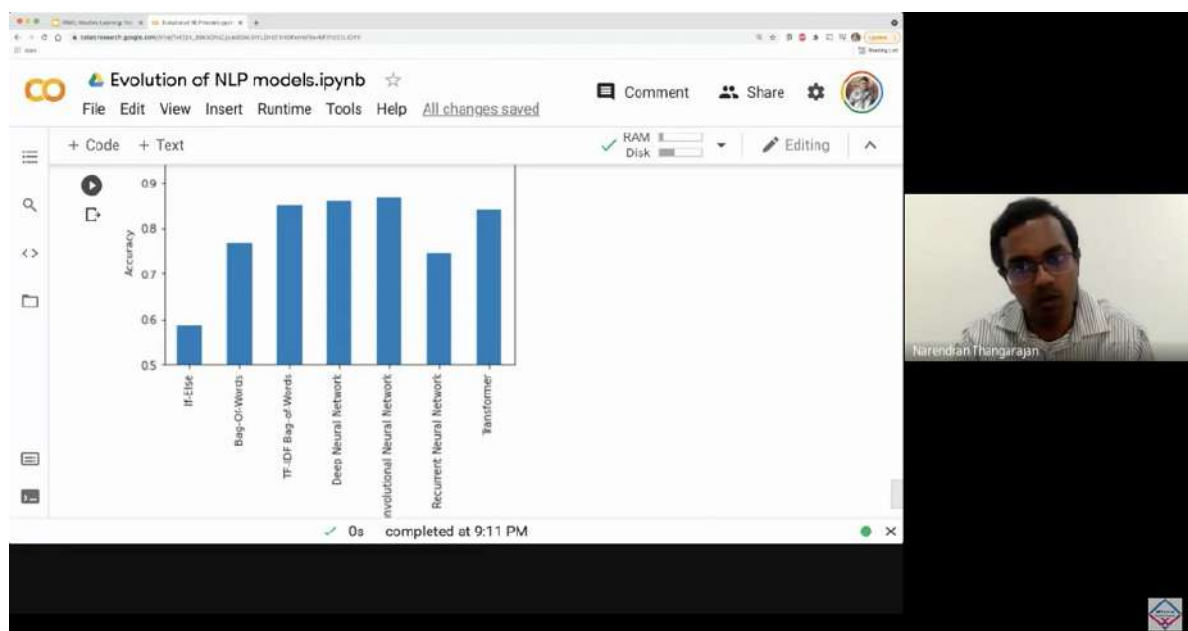


Tensorflow and Keras, a neural network library, were an integral part of the NLP model evolution. The speaker made this part of the session quite interactive by encouraging the participants to pitch in. Emphasis was made on model accuracy and interpretability and some insight into neural networks was also provided.

The talk concluded with a Q&A session where many enthusiastic students raised their queries. The speaker briefly explained supervised, unsupervised and reinforced learning in response to a query. He encouraged the participants to pursue ML, find courses online and even participate in competitions. He inspired the students to dream big and work hard by sharing his journey through college and work.

Filled with real-life examples, Mr. Narendran's webinar was a great success and culminated an interest for ML in all our students. The ACM-W core team's meticulous efforts paid off and participants were soon scouring for ML courses !!

-- ACM-W Office bearers



ACM INDIA EMINENT SPEAKER PROGRAM

SSN College of Engineering
Department of Computer Science and Engineering
SSN ACM-W, SSN ACM, ACM Chennai, ACM-W Chennai Chapters
present

Eminent Speaker Program

Replicated Data Types: From Practice to Theory

Time : 6 PM
Date : 29 September 2021
Register at
<https://tinyurl.com/esptalk>
OPEN TO ALL!

Dr. Madhavan Mukund
Director
Chennai Mathematical Institute

Event Coordinators:
Dr. Chitra Babu
Mr. H. R. Mohan
Dr. M. Pushpalatha
Dr. K. Madheswari
Dr. N. Sujaudeen

ssnacmw SSN ACM-W Student Chapter SSN

The ACM India Eminent Speaker Program (ESP) talk on "Replicated Data Types: From Practice to Theory" was organised by the SSN's ACM-W and ACM Student Chapters along with the ACM and ACM-W Chennai Professional Chapters on the 29th September through MS Teams online platform. The SSN ACM-W team made the event a grand success with around 140 participants which included students and faculty members from multiple colleges.

The eminent speaker for the event was Dr. Madhavan Mukund, Director of Chennai Mathematical Institute (CMI).

The session started off with the introduction to the topics of Distributed systems and the speaker motivated the need for eventual consistency for cloud services as opposed to traditional strict consistency model in database transactions. Real life examples given such as Amazon shopping cart, Google docs and Facebook "like" counters made the audience relate to the issue of consistency of the replicas. In all these scenarios, data is in general replicated across multiple nodes for redundancy and also for achieving minimum latency.

Furthermore, the session covered the details of how each request by the client would be fielded by an individual source replica and the changes be later propagated to the other replicas. According to the CAP theorem, a distributed system can satisfy only utmost two out of the three properties namely consistency, availability and partition tolerance. In the cloud service scenario, network failures are unavoidable. Further, compromising on availability will have an adverse effect on the customer experience. Hence, cloud service providers have chosen to settle for eventual consistency instead of the strict consistency.

In this background, Conflict-free Replicated Data Types (CRDTs) introduced by Shapiro were explained. These data structures were built into the programming language. Even though, a distributed set and counter can be implemented using this CRDT, there was no rigorous correctness argument provided by the Shapiro's group.

Prof. Madhavan and his research scholar Gautam Shenoy have worked on the formalization of CRDTs where the different runs of CRDTs are arranged in sequence based on the "happened-before" relationship of Leslie Lamport. Declarative specifications were used where it can be specified that which concurrent update on the replica will win eventually and this can later be checked whether the corresponding implementation satisfies this or not. The webinar concluded with an interesting question and answer session.

The talk was very interesting from the perspective that the practice is ahead of theory in this case and the theoreticians are trying to formally explain rigorously whatever is being already practiced in an adhoc manner by the cloud service providers such as Google, Amazon and Microsoft. This will really help these companies make more informed decisions on the kind of guarantees that they need to provide based on their perception of what their clients want. (<https://youtu.be/uxrlvsfeSDs>)

-- ACM-W Student Chapter Team



HOW TO GET TOP RATED HIGHER EDUCATION & TECHNICAL PROFILE BUILDING

CareerLabs in Association with Byju's conducted a webinar on "How To Get Top Rated Higher Education & Technical Profile Building" on the 7th of August. The speakers highlighted the importance of pursuing higher education and its benefits in the long run. They gave us the big picture on the various possibilities after completing our Engineering Course, and problems faced by most of engineers while applying for jobs.

The importance of a person's resume and the "X-factor" which differentiates him/her from competing candidates was stressed upon. Additionally, the importance of participating in projects and presenting research papers was discussed.

The importance of writing GRE and selection of institutions were highlighted and some scenarios were presented about the same. Opportunities in foreign countries for higher studies, the scholarships available and information regarding Educational Loans were also provided. Selection of institutions and procedure to apply for colleges were shared and importance of selecting projects relevant to the preferred field of study was discussed. Multiple plans to build a profile were explored as well. Case studies of different candidates with different profiles were studied to give us more insight regarding the same.

It was a wonderful experience to attend the webinar and gain additional information about the importance of profile building. I thank the management for providing us with a wonderful opportunity to attend the webinar that would definitely help us decide on considering higher education after completion of our course.

-- Sharvesh S, III year CSE

IEEEEXTREME 15.0

"IEEEExtreme 15.0 is a programming contest in which teams of upto 3 members are required to solve a set of problems within a span of 24 hours. We, team Nutella, consisting of Avinash Kartik (IV year) and Joseph Amirtharaj (III year) participated in IEEEExtreme 15.0 held on the 23rd of October. **We ranked 12th world-wide, and ranked 1 amongst the Indian teams.**

We were required to solve a total of 25 problems over the course of an entire day (24 hours). However, the entire problem set was not available at the beginning of the contest, rather every hour one problem was released. It is a unique contest in this respect as conventional programming contests last only upto 5 hours with the entire problem set given to the contestants at the beginning of the contest. The contestants have usually the freedom to solve the problems in any given order and the problems will be numbered based on their difficulty but not so in this contest. The difficulty level of the problems were random.

The problems were great as expected, and we had a lot of fun solving it. Some of the concepts that were employed to solve the problems include advanced dynamic programming, heavy-light decomposition, segment trees to name a few. We kept at the problems from the beginning of the contest till the end and made sure that at least one member from the team was actively trying to solve the problems. We'd like to thank SSN for giving us the opportunity to participate in this contest."

**Avinash Kartik (IV year) and
Joseph Amirtharaj (III year)**



Avinash Kartik

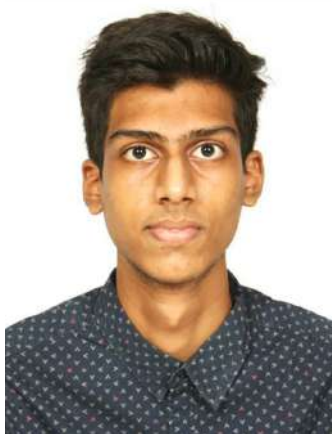


Joseph Amirtharaj

We(Deepak Sriram, Harshavardhan and Kiranraj) are extremely elated after securing **National rank 3, International rank 51** in IEEEExtreme 15.0, a 24 hour international coding contest. In IEEEExtreme we were given two problems initially and one new problem was appended at the end of every hour (a total of 25 problems were given). Initially we thought of splitting the contest duration into three slots with the idea of facing the contest individually for 8 hours. But as soon as the contest started, we realized that solving the problems together would be more efficient. All the three of us solved the contest for 22 hours and stuck to our strength of teamwork and solved 22 problems. The practice we had in solving the problems of codeforces and codechef helped us a lot.

We thank our senior friends of Coding Club for mentoring us and leading us to the world of competitive programming. We express our sincere gratitude to SSN College of Engineering for providing us a platform to explore ourselves.

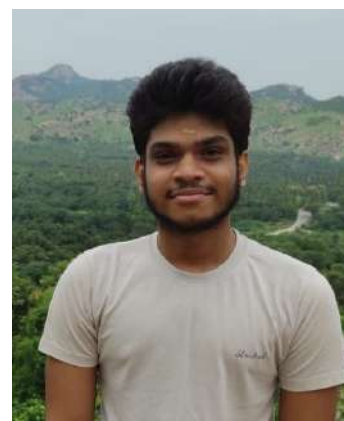
Deepak Sriram, Harshavardhan, Kiranraj
II Year CSE



Deepak Sriram



Harshavardhan



Kiranraj

IEEE R10 UNDERGRADUATE STUDENT PROJECT VIDEO CONTEST

It gives us great pleasure to announce that we have been selected as the winners of the IEEE R10 (spanning 7 countries and 50+ councils) Undergraduate Student Project Video Contest for the year 2021. We will be awarded a cash prize of 300 USD and IEEE will promote our project video on YouTube for the rest of the year.

The contest is a test of one's ability to communicate research ideas related to their professional field via electronic media to a wider audience encompassing professional and non-technical viewers. The submissions are assessed on a wide range of parameters including their technical accuracy, innovation, originality, practical implementation and overall presentation. Our presentation was based on our ongoing work with the Under Water Acoustic Research Lab (UWARL) at SSN, focusing on the development of a prototype of a Hybrid Remotely Operated Vehicle (H-ROV) to aid with underwater research and exploration.

An underwater vehicle (UWV) is an underwater robot that helps carry out certain tasks for which it can be customized and designed. A Remotely Operated Vehicle (ROV) is a highly maneuverable underwater robot that can be used to explore ocean depths and is controlled by a human operator. A group of cables, or tether, connects the ROV to a manned controlling station, sending data and operational instructions in the form of electrical signals back and forth between the operator and the vehicle.



Our robot, named ORCA, is a 500 x 350 x 210 mm inspection class ROV. It weighs 10.24Kgs and houses various sensors (temperature, pressure, leak sensor, Inertial Measurement Unit) and a camera to carry out underwater missions. This 6-thruster model is driven by a navigation suite that takes manual control instructions through a joystick, maps them to desired levels of thrust and rudder values and relays them to the actuators to achieve on-demand movement of the vehicle. The navigation suite is built on top of a set of open-source C++ module namely, Mission Oriented Operating Suite - Interval Programming (MOOS-IvP).

ORCA has been bench-tested and subsequently pool-tested in shallow water regions. It was able to carry out multiple 5-15 minute long straight line missions with consistent data collection through sensors and satisfactory maneuverability in all 6 degrees of freedom.

We would like to thank Dr. S Sakthivel Murugan Sir, UWARL Lab, ECE department for guiding us as the principal investigator of the project and for his valuable pointers in preparing the submission to this contest. We are also thankful to Dr. Y. V. Lokeshwari ma'am and the CSE department for notifying the students about this opportunity and encouraging us to participate.

Do check out our video on youtube:



Nivedhitha D
IV Year, CSE



Karthik D
III Year, CSE

ACE - OFFICE BEARERS



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Arunesh Kumar - Vice President



Nivedhitha D - Secretary



Joshua A - Joint Secretary



A Susmithaa Raam - Treasurer



Lakshmi Priya B - Joint Treasurer

INVENTE 6.0

The 6th edition of Invente, was conducted virtually this year on the 8th and 9th of October. This 2-day intercollegiate technical fest was aimed at encouraging students to think beyond academics, in helping them discover their hidden passions and in giving them space to flaunt their skills in various domains. Witnessing over 500 participants from across the state in its 9 events spanning a range of technical and non-technical domains, powered by 8 sponsors and a steadfast organizing committee, the techfest was a great success. Event winners and exceptional performers were commemorated with prizes worth Rs. 50,000/- and internship offers.

We would like to express our sincere gratitude to the sponsors – Motorq, Emids Technologies, Cosmic, InfySec, LeanCloud, Typesense, Mr. Gowthamraj and Stayflexi Inc., for their financial support and endorsement of our efforts. We would also like to thank Dr. Chitra Babu, the head of the department and faculty coordinator, Dr. Sujaudeen for their unwavering guidance in planning and executing this virtual techfest.



Devathlon is a week-long cross-department entrepreneurship hackathon that envisages skilled individuals endeavouring on their startup journeys. With Invente 6.0 marking the first ever edition of Devathlon, sponsored by Stayflexi Inc., USA, the organizing committee is proud to announce a turnout of over 50 participants spread across 17 teams. Ideas ranged from a variety of domains, including blockchain, e-commerce, travel and tourism to name a few. During the week, teams were mentored and reviewed by multiple panels of industry experts as they worked on improving and refining their ideas. The top three teams were commemorated with prizes worth Rs.30,000/-.

Code Triathlon was designed with a view to challenge the participants and give them a new perspective in thinking in terms of algorithms and data structures. The event involved three exciting rounds of brain-racking puzzles and questions. The first round was based on interesting algorithms and pseudocode. The best performers qualified to the next round of exciting code puzzles. Jumbled pieces of code and algorithms were given and the participants were asked to order them meaningfully. The top 10 performers were moved to the final round called Techxtempo. Working professionals were invited to judge the 5-minute pitch of the participants for resolving real time problem statements. The participants came up with novel solutions for all the problem statements and the judges had a great time interacting with them about the various prospects of their solution and the promise of converting it into a real time implementation. Excellent performers were awarded prizes based on their idea and implementation strategy.

Hacker's Asylum is a Capture the Flag event. Participants contested either individually or in teams of 2 to solve puzzles in the fields of cyber security, cryptography, reverse engineering, web security and forensics to obtain flags and points. The fastest team to capture all the flags wins. The first round was an elimination round in the form of a mini CTF with 4 challenges and 6 flags. It had 58 participants split into 35 teams. The top 5 teams were selected for the main event. In addition, one other team made it to the main event after winning our promotional challenge on the ACE Instagram page. The final round was a complete CTF with 6 challenges and 7 flags along with the added twist of a story line where an Instagram content creator is found dead and her production company hires the participant to recover data from her wiped laptop.

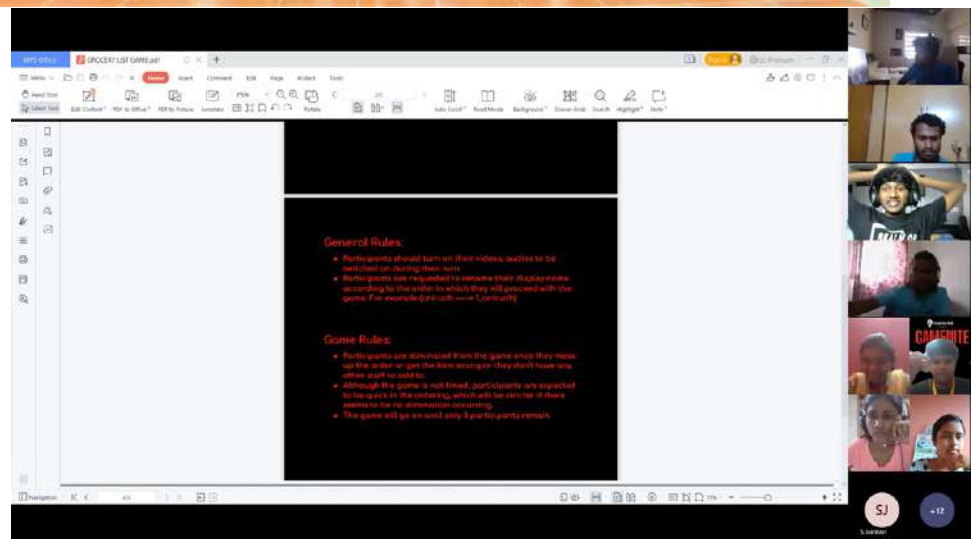
Relay in Reverse took place on October 9, 2021. The event was kindly sponsored by Typesense and co-sponsored by Saama and Facilio. The event was conducted to test the coding skills and programming fundamentals of the participants in a fun-filled manner.

These events are organised every year to provide a platform for the students to showcase their talent with a competitive spirit. The event successfully managed to attract as many as 17 teams, bringing up the individual registration count to around 50. The event consisted of 2 rounds, viz. Fast and Furious Wins the Race (team quiz) and Relay in Reverse (Coding challenge). The participation of students from various colleges in the first round was beyond commendable. The members of the organising committee were delighted to see the teams have a close-run with high scores. A total of 4 teams were shortlisted for the final round. Internship interviews were offered for the winning teams and prize money of Rs.5000 was awarded to them.

Dev Heist is an event for developers to showcase their creativity and design skills! In the prelims, participants were given 20 minutes to recreate a CSS design based on Spotify's UI, which stayed true to the theme of the event. The submissions were scored based on how many elements were replicated successfully and on the difficulty of the element. A total of 16 teams (of 1 - 2 participants) qualified for the finals in which they had to design an app or a website for a given theme. Overall, we received positive feedback about the event from the participants, especially for the "CSS battle" that we conducted for prelims!

Codolympics at Invente 6.0 was a competitive programming event where participants compete in teams of size one or two, across two nail-biting rounds, 2hrs each. They were given 6-7 problems based on the theme of the event "Among Us". They were scored based on the number of questions solved and then based on the time taken to solve them. The participation response for the prelims was massive with over 560 teams from 200 odd distinct colleges across the country competing against each other. 30 of the best teams from the prelims were selected to participate in the finals.

The premise of Mock Job Drive was to conduct an event that would simulate a real-life job interview situation so as to provide participants an opportunity to take part in a mock interview process to understand and familiarize themselves with generic campus-hiring events. We had about 30 participants enroll in our event. Much like the traditional flow of campus hiring, the first round was an initial MCQ-based round which tested the participants on aspects like Computer Science Fundamentals, Logical Reasoning, Aptitude and Quant, and so on. Following this, we hosted a coding event that tested the candidates' soundness in data structures and algorithmic thinking. The candidates were ranked on the scores obtained in the two sections, and the top candidates were shortlisted for interview rounds.



The initial interview judged the participants on their coding and technical expertise, and their overall interview demeanor. The top 3 candidates were assessed on a core understanding of different concepts in a final interview.

Paper Presentation is an event for participants to showcase their innovative ideas in the form of a Research Paper. The theme of the event was the 'Aarogya Setu' app. The event was conducted in two rounds. After submitting the paper, they were tested for plagiarism, legitimate references, and the proper format. Any plagiarized paper found was disqualified. 9 people proceeded to the second round. In the second round, the participants presented their work to a panel of esteemed judges, and winners were declared on the basis of the evaluation score. The participants were evaluated on the basis of the innovativeness of their idea, the feasibility, and their presentation.

Game Nite was a non-technical event where the main motive was for participants to have fun and a good time after a wide range of technical events. It consisted of 5 rounds where the first four – the grocery list game, Dumbsharades, Pictionary, Headbanz (Guess Who, Guess What), and the crux of the event – the Trivia round. The event was conducted on Microsoft Teams and Kahoot was also utilized for conducting the final round. We had around 15 participants from various backgrounds and colleges. The event started off with the grocery list game, where the participants were supposed to remember a list of grocery items of others and append their own item and the game goes on. This was followed by Dumbsharades where participants were put in teams and had to enact the clue given to them, and the other teammate should guess it within a stipulated time. In the third round, a Pictionary game was played in teams where each team was given a set of words and the team with the most correct guesses scored the highest. The round before the Trivia round was Headbanz. The Final round, Trivia Round, consisted of a series of timed questions where the first person to answer correctly scores the point. Overall, it was an amazing experience conducting such an entertaining event and we sure learned a lot throughout the process.

-- ACE Office Bearers

BEST OUTGOING STUDENT - CSE DEPARTMENT

It's been four years since I sat in the main auditorium, scrambling to make notes about the different clubs at SSN and how to join them. Four years since I wandered into the CSE department as a blue-eyed (and naive) fresher searching for the opportunity to pursue my first ML project. Many sleepless nights later, I find myself with the task of writing this and marvel at how fast time flew.

Like every student in the world, I've complained about my college life- the horrendous even semesters with three tests a week, the lack of holidays, attendance requirements. But looking back, I remember very little of these days. My clearest memories are of my auditions into LOP, the basketball tournaments, curating the computational thinking workshops and of playing lit - on the bus, between classes, in the hostel, everywhere.

So much of who I've become has come from the last four years at SSN. The hectic schedules I'd complain about prepared me so well that even a demanding corporate job leaves me with free time that was previously unknown. The million crash-course workshops made me confident about my ability to get up to speed in a new environment. Now I could go on about the value I've gained from this institution, the list endless. Instead, I'm choosing to tell you all things I wished I'd heard earlier as a student, hoping they could be of some value. My peer group in CSE was incredible- everyone was smart and always achieving something but also equally approachable and helpful. This characteristic is very reflective of everyone



at SSN. I got into an MBA program at ISB and had an alumnus from 2016 talk me through the application process. The clubs helped me get a support system- seniors I could talk to for hours when I was unsure of my career trajectory and mentors that were emotionally invested in my success. So if you're a student who's reading this, get on LinkedIn or ping one of your current seniors today. Find alumni who interest you and tell them you're from SSN, they're always up for a chat. The earlier you start, the more we can help you.

If you've seen me at college, you wouldn't possibly think I missed out on anything and it's true. But not as much as I'd like it to be. A million events happen in all departments, at all times. It's overwhelming. But (at the risk of sounding cliched) you're never going to get these opportunities again. So try everything you've wanted to. Make time for that cybersecurity workshop, make time for Kurukshetra, sing your heart out at a lawn jam. Always had frizzy hair and yearned for the perfect straightener? Start an inter-departmental IFP to make an AI-powered hair-straightener. SSN has so many avenues for us to utilize and learn from, we sometimes find out too late.

I am currently a Technology Analyst at Citi. I secured a deferred MBA admission at the Indian School of Business, Hyderabad through the Young Leaders Programme. I am committed towards giving back to society and spend my Saturdays teaching 10th graders English through a non-profit called Take A Step. A proud alumnus, I was the Secretary-General of SSNMUN 2021 and the President of Lights Out Please. I continue contributing to college as a member of the Internal Quality Assessment Cell and by mentoring juniors through their college applications and placement tests.

Sadhana Smruthi S
2017-2021 Batch / CSE

PLACEMENT UPDATES - TILL OCTOBER 2021

SALARY RANGE (In Lakh)	NUMBER OF COMPANIES	NUMBER OF STUDENTS PLACED
>20	8	22
11 - 20	13	68
6 - 10	23	59
<6	4	11

Total Strength	220
Total Registered	202
Eligible	173
Number of Students Placed	160
% Placed - Regd	79%
% Placed - Eligible	92%



Recruited Companies

>20 L	11-20 L	6-10 L	< 6 L
Motorq Atlassian Virtusa Amazon Google PayPal Goldman Sachs Avalara	ChargeBee Optum Citibank Fidelity Barclays LeanKloud Stayflexi Maximl RocketLane Salesforce Nielsen NAVIS	Gain Credit Thorogood Sapient Mr.Cooper McKinsey Toyota Connected Verizon Amadeus O9 Solution Statestreet Zoho Caratlane Transunion IBM Deloitte Mad Street Den Foodhub TCS (Digital) Cognizant(GenCNext) Oracle LTI - L2 BA Continuum Comcast	Cognizant (GenC Elevate) Cognizant (GenC) TCS (Ninja) Infosys (InfyTq)



Atlassian

A Susmithaa Raam

Goldman Sachs

M G Shanmuga Priya
Khushi Bohra

ChargeBee

Satheesh Kumar G R
Sreedhar Venkatesan
Sreyas V
Aviansh Gupta
Gokhulnath T

Fidelity

Preethi Thiagarajan
Shashanka Venkatesh
Gayathri
Jaanhavi S
Joshua A
Likhitha Verma A
S Madhumitha

Barclays

Ponvignesh C
Nivetha P
Ramakrishnan A M
S Rajashree
Sharan Giri
Utkarsh Uniyal
Aditya Krishna Ponndurai
Aswin M
Bharath Kumar A M R
Kshitij Sharma

LeanKloud

K Krishnakumar

Amazon

Siddharth Sriraman
Sricharan P P
Sneha Sriram Kannan
Sruthi Bijoy
N Veeraraghavan
V.S.Aarthi
Ajay Bhat
Amith Kumar N
Ayush Nanda

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