DEPARTMENT OF INFORMATION TECHNOLOGY PRESENTS
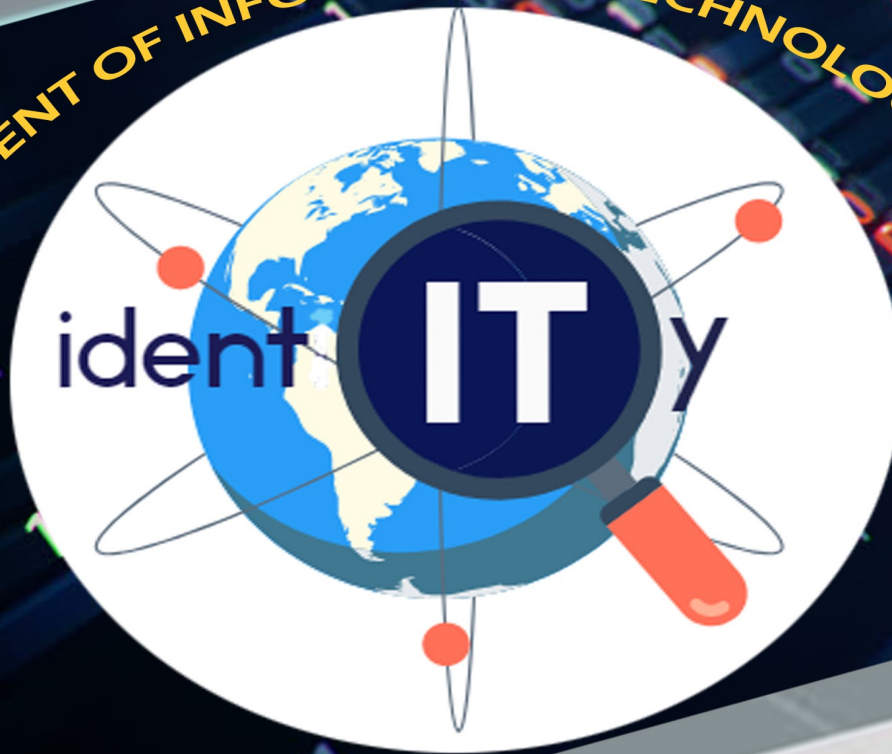
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HALF YEARLY ISSUE

know more ,grow more

Jan 2018

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INDEX

IEEEXtreme 11.0

The IEEEXtreme 11.0 24-Hour Programming Competition was hosted by Department of Information Technology and SSN IEEE SB in association with IEEE Madras Section. The event was supported by SSN by providing infrastructure and accommodation facilities for the participants. Cognizant Technology Solutions (CTS) sponsored Rs. 1,00,000/- as a financial support for the event.

The event had 3348 teams in global level out of which 1083 teams registered at National level and 246 teams registered under Madras Section. At SSNCE who were the Chennai host, had a whopping 66 registered teams and total participants of 145 from various colleges. The event was felicitated by members from IEEE Madras Section and Dr. R. Srini who delivered a talk on "Making the invisible visible". The participants were also given a chance to have a one to one interaction with Mr. H. R. Mohan, Vice Chair, Dr. Sakthivel, Treasurer, Dr. Koteeswaran, Member and other members of IEEE Madras Section. The following faculty members were the PoC from the department of IT: Dr. T. Nagarajan, HoD, Dr. R. Srinivasan, Professor, Dr. T. SreeSharmila, Dr. S. Karthika, Dr. N. Bhalaji, Dr. K. R. Uthayan, Dr. P. Vasuki, ASP, Ms. E.M. Malathy, Ms. N. R. Radha, Mr. A. S. Sandanakaruppan, Ms. S.Shanmughapriya, Ms. S. Uma Maheswari, Ms. R. Swathika, Ms. S. Sasirekha and Mr. V. Arulkumar.

"With the new day comes new strength and new thoughts."

- Eleanor Roosevelt

The team "Heuristics" with members Chandramowli J (Team Administrator), Murugappan S and Rahul Ramji and team "SSNTrojans"

with members Balakrishnan S (Team Administrator), Nitheesh Prabu S and Vignesh Muthukumar from department of Information Technology, SSNCE have achieved remarkable positions at different levels.

Team	Levels & Positions			
	Madras Section	**National**	**IEEE Region 10**	**International**
Heuristics	1st	3rd	39th	101st

We take this opportunity to thank SSN Management for supporting the event by providing infrastructure and accommodation facilities for the participants. We thank Dr. S. Salivahanan, Principal, SSN CE, for permitting us to host the event. We also thank the placement cell, technical support team and electrical maintenance team for their constant support for the successful completion of the event.

"In order to succeed we must first believe we can."

- Nikos Kazantzakis

# Hear it from the participants...

Our Experience at IEEExtreme 11.0

Our team participated in the IEEExtreme 11.0 which is a 24 hour coding competition conducted by IEEE. We participated with the team name "Heuristics". Our team consists of Murugappan, who does all the coding job; Rahul whose laziness always helps us write shorter code and myself Chandramowli, still struggling to compile. The college provided us with excellent accommodation in the International Hostel and we had to wake up earlier on the day of the competition as it started at 5:30am. We somehow managed to wake up at 5:00am and we casually walked towards Placement Cell where all the arrangements were made. We were shocked to see all our professors including our HoD waiting there to greet us. You should have seen Murugappan's face at that moment as he came in Capri pants with a loose fitting T-Shirt and a flip flop. Since we are the "coolest" department, they did not mind. We opened our first problem at 5:40am and we were already late. The competition was structured in a very good way as they posted 1, 2 or sometimes 3 problems every hour to keep us engaged. We were doing fairly good till 7:30am and at that point we were placed 1st in India. We had a long breakfast and we returned to see ourselves placed 3rd in India, that's when we realized how stiff the competition was.
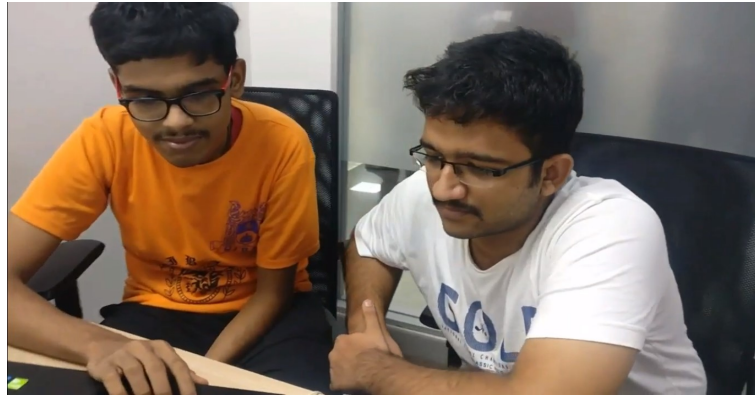
Each hour we were greeted with some easy problems and more difficult problems. As time passed, we already had many unsolved problems and we were in a dilemma on which ones to solve first. We had our lunch and at that point we were blank. We again discussed and came up with a strategy. We thought of seeing the new problems and solve it if we have any ideas else we add that to the queue.

For the first 12 hours, the questions were high on math and we were struggling to find the solution. The competition became intense and we were forced to solve the problems we had missed earlier. That's when we got a very easy Dynamic Programming problem and we solved it in a minute or so. Our confidence increased and we started solving either completely or partially the unsolved problems. Rahul was not feeling well that day and he decided to take a quick nap at 1:00am. I was surviving with the coffee they gave me and Murugappan refused to move from his place. We started getting easier, more Algorithmic kind of problems from there on. We started solving those and we decided to get partial points for other problems which we had a vague idea. At 2:30am, we got a question and Murugappan shouted loudly that it's a Flow question. Rahul was better at flow type of question and we were in a dilemma as to whether we should wake him or not as he was not feeling well. But we thought of just asking him on how to modify the snippet we have to solve that problem. Rahul has a weird habit of remembering the unique question code for all the problems and that helped us in solving the question.
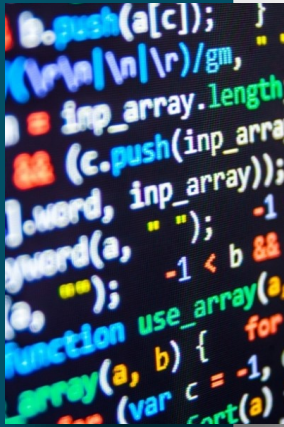
After hearing the question, he said two things. One, the question code of the question in Codeforces which is similar to that question and second, on how to modify the snippet to solve that question. Murugappan did those changes and we submitted the code to get full points for that. After this, Murugappan and I went outside and we were astonished to see all our faculty sitting outside without sleeping. We understood how much they valued this competition. The competition finally ended at 5:30am and were placed 3rd in India and 104th in the World . We missed a TopCoder T-Shirt by a whisker.

We would like to thank all the organizers who roamed throughout the day and made the competition flawless. We would also like to thank all our faculty members and our HoD for being with us throughout the day and for motivating us.

"Don't Let Yesterday Take Up Too Much Of Today."

- Will Rogers

Chandramowli J (On behalf of Team Heuristics)

IT-A, III Year

ProCoDE
- The Intra-department coding club

The Intra department Tech Club "ProCode" was inaugurated with the august presence of Mr. Srinivasa Varadhan, Global Head of Enterprise Architecture, DXC Technology, Chennai, as Chief Guest accompanied by Ms. Anusha, HR, DXC Technology, Chennai. Dr. S. Salivahanan, Principal, SSNCE delivered the welcome address and presided over the function. Mr. Sri Vishnu, Alumni addressed the students about criticality of coding in placements and higher studies. It took place on August 10, 2017.

Web development is one of the most intensively growing area where updating of knowledge time to time is important. The Web Development team of ProCoDe aims at imparting practical and sound knowledge in the domain of Web Design and Development. The topics extensively covered in the sessions were HTML, CSS, BOOTSTRAP, ANGULAR JS, JQUERY, JSON, PHP and other different frameworks. In a nut shell, we give aim to give all the necessary guidance for the learners to get into a successful tread of Web development.

"It's Not Whether You Get Knocked Down, It's Whether You Get Up."

–Vince Lombardi

Competitive coding is a much needed skill in today's world. Knowledge of algorithms, data structures, knowing the knack to make a code efficient, and the ability to know how to approach a problem are the main highlights of competitive coding. Such algorithms and concepts were taught to students in the ProCode sessions, using which they were able and made to solve problems. Websites such as codechef, codeforces and hackerrank were introduced to them to aid them in this venture. We hope to continue to guide students in this field.

Android Apps have been and will continue to revolutionize the mobile world for years to come. The Android Application development team of ProCoDe aims to groom the students to design and develop Android Apps that can ease the workload on the user. The students were guided to design Android Apps using layouts in XML and also give functionality for the same using Java. Also, they were given an insight into SQLite and Cloud databases such as Firebase. We hope to lay the foundation for more budding App developers in the near future.

"People Who Are Crazy Enough To Think They Can Change The World, Are The Ones Who Do."

- Rob Siltanen

— Team ProCoDe

First Year Orientation

Orientation program was conducted for I year B.Tech IT students, by faculty members Dr. T. Nagarajan, Dr. R.Srinivasan, Dr. A. Shahina, Dr. Bhalaji, Dr. S. Karthika, Dr. S. Mohanavalli, Dr. S. Poornima, Mr. A. Sandanakaruppan, Ms. S. Sasirekha, and Ms. T. Shanmughapriya. The students were briefed about department functioning and facilities, club activities, research groups and funded projects. Alumni students also briefed them in the aspects of current scenario in industries and higher studies.

"Failure Will

Never

Overtake Me If

My

Determination

To Succeed Is

Strong

Enough."

- Og Mandino

Mr. Sri Vishnu Kumar (2016-17 Batch) Delivered a talk on higher studies and preparation towards GRE to First year students of Information Technology, during their orientation program conducted by Department of Information Technology.

"We May Encounter Many Defeats But We Must Not Be Defeated."

- Maya Angelou

Mr. A. Ponkumaran (2013 Batch) and Mr. A.Prakash (2016 Batch) both from Amazon, delivered a talk to First year students of Information Technology, during their orientation program conducted by Department of Information Technology.

Invente

Invente 2.0 took place on September 8, 9 2017at SSN CE.

Invente is an inter-colligate cultural event that is jointly hosted by all departments of SSNCE. Tons of events were held across a wide range of categories including technical and non-technical events. Students from the Department of IT were responsible for 8 events, Security, Web Development, Mobile Application Development, Data Analytics, UI/UX Design, Paper Presentation and Artificial Intelligence. All events saw tremendous response from the participants, and the winners in each event were awards cool prizes and goodies.

The entire event was a grand success.

"The power of imagination makes us infinite"

-John Muir

v

Placement Insights
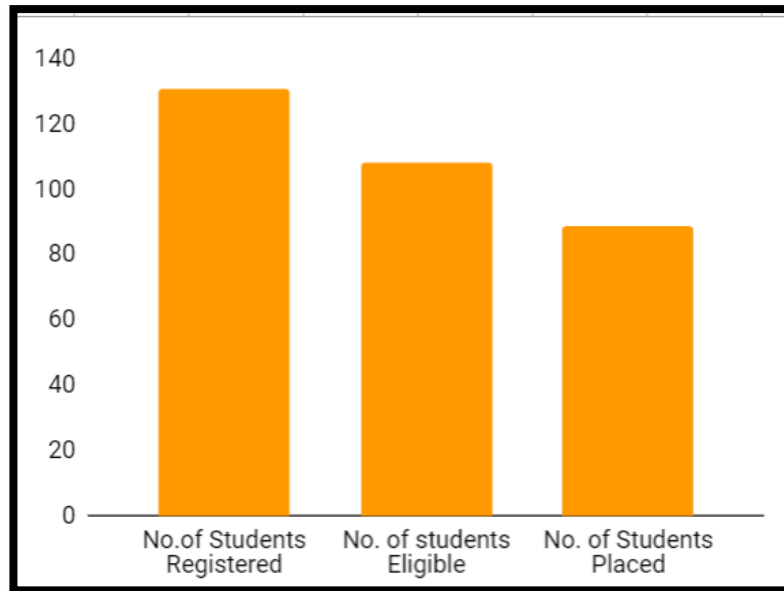
The recruitment of freshers by the industries especially the IT sector has been reducing tremendously. Even in such a scenario, our department has been able to bag **82% of placement and it is still growing**. The graphs stand proof of the positive placement trends within our department.

Students Placement Track

- 2.85L-4.5 L
- 4.5L -7 L
- Above 7L

10
22
57
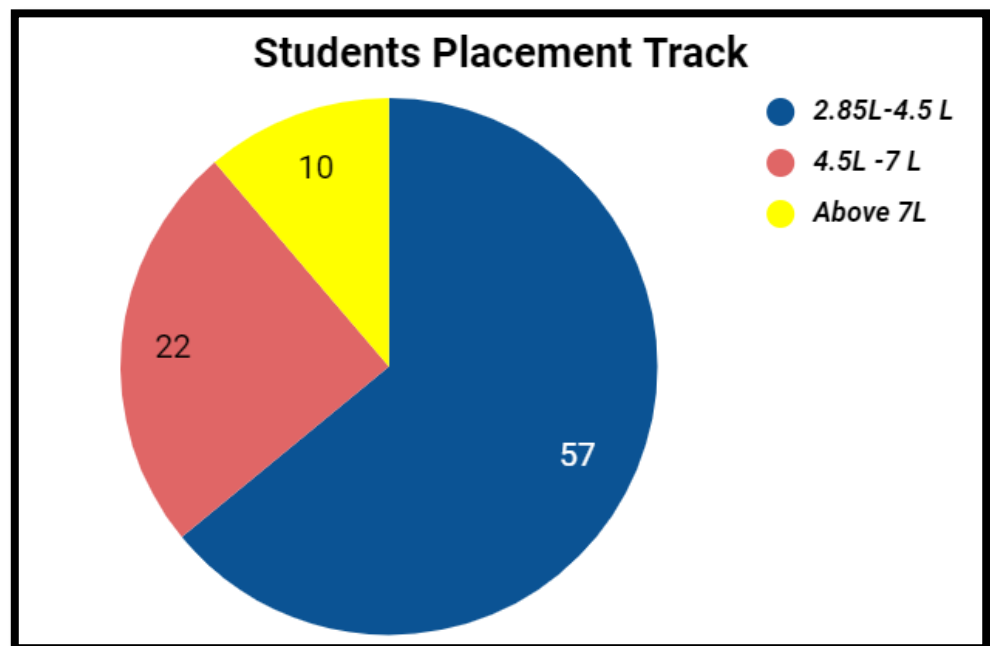
Sanctioned Internally Funded Projects

Student Projects

TITLE : **Tonoscopic image processing**
Project Guide : Dr. Srinivasan
Students : N. Vignesh Kumar (II Year)
V.Vishal (IIYear)
Yash Munoth (IIYear)
Budget: Rs.19000

TITLE : **Effective irrigation management using cyber physical systems**
Project Guide : Dr. N. Bhalaji
Students : M.Vignesh (III Year)
S. Raghul (III Year) S. Prem Harish (III Year)
Budget: Rs.10000
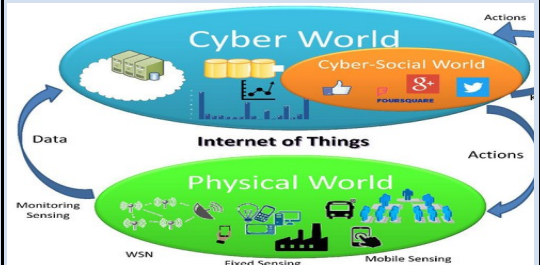
TITLE : **Smart book locator system**
Project Guide : Dr. I. Joe Louis Paul
Students : P.J.M. Swaminaathan (III Year)
J. Rino Vetha Moses (III Year)
M. Rama Krishnar (III Year)
Budget: Rs. 15000

TITLE : **Advanced system security**
Project Guide : Dr. N. Bhalaji
Students : Debadyuti Bhattacharya (II Year) Ashwin Dhanasamy (IIYear)
Prem Suresh (IIYear)
Budget: Rs. 10000

TITLE : **CodeEasy - A code learning system using OCR and deep learning**
Project Guide : Dr. P. Vasuki
Students : G. Swaminathan (III Year)
S. Balakrishnan (III Year)
S. Nitheesh Prabu (III Year)
Budget: Rs. 14000

"We Generate Fears While We Sit. We Overcome Them By Action."

- Dr. Henry Link

TITLE : **Cycle Grid - A bicycle sharing system**
Project Guide : Dr. S. Mohanavalli
Ms. Srividya
Students : S. Pooja (III Year)
Pooja R. Bhaiya (III Year)
B. Prashanthi (III Year) S. Shruthi (III Year)
Budget: Rs. 25000

TITLE : **MedRecommender system - An application for predictive analysis of symptoms and recommendation of hospitals and physicians**
Project Guide : Dr. S. Poornima Dr. N. Sripriya
Students : S. Swarnalatha (III Year) R.S. Shrikanth (III Year) I. Kesavarthini (III Year)
Budget: Rs. 22000

TITLE : **Automated attendance system for educational institutions**
Project Guide : Dr. I. Joe Louis Paul
Ms. S. Sasirekha
Students : K. Srividhyasaradha (II Year)
Budget: Rs. 10000

"The Only Limit To Our Realization Of Tomorrow Will Be Our Doubts Of Today."

- Franklin D. Roosevelt

TITLE : **Network evaluation model through web based technologies**
Project Guide : Ms. E.M. Malathy
Ms. N. Radha
Students : Nikita Vignesh Kumar (III Year)
C. Lahari (III Year) V. Jeya Aiswarya (III Year)
Budget: Rs. 8000

TITLE : **Virtual tour of SSN**
Project Guide : Dr. T. Sree Sharmila
Students : B. Karthik Raja (II Year)
D. Hemnath (II Year) A. Narayanan (II Year)
Budget: Rs. 22000

Faculty Projects

TITLE : **Behaviour analysis of privacy leaks on Twitter**
PI/Co-PI and Department : Dr. S. Karthika (IT) Dr. S. Mohanavalli (IT)
Budget: Rs. 200000

TITLE : **Lie detection - An integrated approach**
PI/Co-PI and Department : Dr. T. Sree Sharmila (IT) Dr. L. Suganthi (BME)
Budget: Rs. 350000

Publications

- N. Vinodhkumar, and R.Srinivasan, "SET and SEU performance of Single, Double, Triple and Quadruple-Gate Junctionless FETs Using Numerical Simulations", Microelectronics Journal (Elsevier Publisher).

- Priscilla Scarlet, and R Srinivasan, "Performance Optimisation of Junctionless FET in Nano regime using Segmented Channel - A 3D Numerical simulation study" Superlattices and Microstructures (Elsevier Publisher) .

- N. Radha, A. Shahina, P. Prabha, B.T. Preethi Sri, A. Nayeemulla Khan, "An Analysis of The Effect of Combining Standard and Alternate Sensor Signals on Recognition of Syllabic Units for Multimodal Speech Recognition", Accepted in Pattern Recognition Letters. Impact Factor: 1.995 (Elsevier Publisher)

- L.K. Pavithra, Dr. T. Sree Sharmila published a paper titled "An efficient framework for image retrieval using colour, texture and edge features", Computers and Electrical Engineering, Elsevier. IF: 1.570

- The paper authored by R. RoselinKiruba and T. Sree Sharmila, ASP, IT, titled "Performance Analysis of secured image encryption and data hiding using LSB algorithm" was presented in IEEE International Conference on Circuits and Systems held at Mar Baselios College of Engineering & Technology, Nalanchira, Trivandrum.

"Creativity Is Intelligence Having Fun."

- Albert Einstein

"Thinking:

the talking of

the soul with

itself"

-Plato

- Dr. T. Sree Sharmila,ASP, IT and P. Gajalakshmi presented a paper titled "Sign language recognition of invariant features based on multiclass support vector machine with beamECOC optimization" in the IEEE international conference on Power, Control, Signals and Instrumentation Engineering (ICPCSI) - 2017 at Saveetha Engineering College.

- R. Priyadharsini, T. SreeSharmila and V. Rajendran, "A wavelet transform based contrast enhancement method for underwater acoustic images" in Multimedia Systems and Signal Processing, Springer. (published online - IF: 1.365)

- Dr. S. Karthika presented the paper titled " Text thermal alert model: Analysis of Twitter lingo for privacy leaks and tweet regrets", in IEEE Technically Sponsored International Conference on Cyber Crime and Forensics (ICCCF), Gold Coast, Australia, 2017. SSN Management has financially supported for attending the conference.

- Priyashree Srikanth, Shivani Naresh, Vigneshwar DK and Dr. S. Karthika, "Meme'tic Engineering to Classify Twitter Lingo" have presented the paper in International Conference on Computational Intelligence in Data Science (ICCIDS 2017) held at Department of Computer Science Engineering, SSNCE.

- Ronak D Tanna, Sri Vishnu Kumar Karlapati and S. Karthika "Analytics as a Service for Beginners" have presented the paper in International Conference on Computational Intelligence in Data Science (ICCIDS 2017) held at Department of Computer Science Engineering, SSNCE.

- The paper titled "Communalyzer - Understanding Life Cycle of Community in Social Networks" authored by Dr. S. Karthika, ASP/IT & R. Geetha, Research Scholar, IT, was presented in the 5th International Conference on Innovations in Computer Science & Engineering (ICICSE 2017) in collaboration with Springer & CSI at Guru Nanak Institutions, Ibrahimpatnam, Telangana State.

- The paper authored by A. V. Parvathi and Dr.S.Karthika, ASP/IT, titled "#BiggBoss - Twitter Driven Temporal Peak Recognition in Long Run Events" was presented in IEEE sponsored Ninth International conference on Advanced Computing held at Department of Computer Technology, Madras Institute of Technology Campus, Anna University, Chrompet, Chennai between 14th-16th December 2017.

- Dr. I. Joe Louis Paul, S. Sasirekha, N Nivedita, V Savitaa, S Srinidhi, published a paper titled "Reverse Image Search Engine with Context based Retrieval", in the proceedings of International Conference on Internet of Things and Challenges (ICITC 2017) sponsored by AICTE) organized by Department of Computer Science and Engineering & Information Technology, Vel Tech Multi Tech Dr. Rangarajan Dr. Sakunthala Engineering College, Avadi, Chennai on the 14th and 15th December 2017.

- I. Joe Louis Paul, S. Sasirekha, S. Uma Maheswari, K.A.M. Ajith, S. M. Arjun and S. Athesh Kumar published a paper titled "Eye Gaze Tracking based Adaptive E-learning for Enhancing Teaching and Learning in Virtual Class Rooms" in the proceedings of Third International Conference on Information and Communication Technology for Competitive Strategies (ICTCS-2017) organized by Association of Computer Machinery (ACM) Udaipur Professional Chapter Udaipur, Rajasthan, India on December 16 and 17,2017.

"One today is worth two tomorrows."

-Benjamin Franklin

- E.M. Malathy AP/IT submitted Synopsis titled "Optimized Qos Vertical Handover Decision Techniques in Next Generation Wireless Network" at Anna University, Chennai on December 1, 2017.

- E.M. Malathy AP/IT- manuscript titled, "State Of Art: Vertical Handover Decision Schemes In Next Generation Wireless Network", has been accepted for publication in Springer - Journal of Communications and Information Networks.

- Dr. A. Shahina reviewed a manuscript titled "Feature selection considering the composition of feature relevancy" for the Elsevier Journal Patt. Recog. Lett. on October 23rd, 2017.

- Dr. N. Bhalaji, ASP, I T reviewed an article titled " Internet of Things (IoT): A vision and on-going research opportunities" for Cluster Computing, Springer.

- Dr. N. Bhalaji, reviewed article titled "A Novel Mobile Network Intrusion Detection Algorithm for Internet of Things System based on Improved Pop Learning Model" for Cluster Computing journal (Springer) and article titled " Intentional and Unintentional Misbehaving Node Detection and Prevention in MANET" for International Journal of Adhoc Networks, (Inderscience)

- Dr. S, Mohanavalli reviewed a manuscript for the journal "Computers and Electrical Engineering" (Elsevier Publisher).

- Dr. S. Mohanavalli reviewed a manuscript for the journal "Iranian Journal of Management Studies".

"As knowledge increases, wonder deepens."

-Charles Morgan

Ms. S. Sasirekha, AP/IT presented the following conference paper:

- Sasirekha S, Swamynathan S, Keerthana S, "A Generic Context-Aware Service Discovery Architecture for IoT Services", in the Second edition of the International conference on Intelligent Information Technologies (ICIIT 2017), held in Anna University, Chennai, and was awarded the best paper award.

Nitheesh Prabu S, Swaminathan G, Vigneshwara P, Sasirekha S presented the poster titled "Text-to-Speech and Object Recognition for the visually impaired" conducted as the part of Second International Conference on Intelligent Information Technologies (ICIIT 2017) organized by Department of IST, CEG Campus, Anna University.

Aashika K, Abilashkumar P.C, Aboorva S, Hariharasudan K.S, **Joe Louis Paul I** received the **Best Poster Presentation Award** for the poster presentation titled "Hydro-Spark: Flood Level and Flood Water Electric Discharge Warning System" conducted as the part of Second International Conference on Intelligent Information Technologies (ICIIT 2017) organized by Department of IST, CEG Campus, Anna

"If you are working on something that you really care about, you don't have to be pushed. The vision pulls you."

-Steve Jobs

Achievements

Dr. T. Sree Sharmila, ASP, IT, has reached the following achievements:

- She received Dr. APJ Abdul Kalam Award for Teaching Excellence-2017 by Marina Labs, Chennai.

- She received Bharat Vikas Award by Institute of Self Reliance, Bhubaneswar, Odisha.

- She has been recognized for professional achievement during the year 2017 by IEEE Madras Section.

"Reading Is To The Mind, As Exercise Is To The Body."

- Brian Tracy

Dr. N. Bhalaji, ASP, IT acted as a subject expert and participated in PhD viva-voce for thesis titled "DESIGN OF WAGON NEXT POINT ROUTING PROTOCOL (WNPRP) AND IT'S PERFORMANCE ANALYSIS IN VANET" under Anna university Chennai at Jersusalem College of Engineering, Chennai.

Faculty members Dr. T. Nagarajan, Dr. A. Shahina, Dr. S. Chithra, Dr. Sree Sharmila, Dr. Joe Louis Paul, Ms. Sasirekha, attended the One day workshop on "Effective implementation of Autonomous System" conducted at SSNCE.

Dr. S. Chithra, ASP, IT served as resource person for the IET sponsored workshop "Le Incasso 2017" at Saveetha University for the session titled "IoT".

Ms. S. Sasirekha, AP, IT, Dr. I. Joe Louis Paul, ASP,IT and Ms. R. Swathika, AP, IT, coordinated the conduct of SSNCE Management Quota First Year Admissions online Aptitude Test which took place successfully.

"It is by acts and not by ideas that people live."

-Anatole France

Mr. R. Vinobchander, AP, IT was the resource person for the FDP on "Python - Hands on Session" at Saveetha School of Engineering, Saveetha University, Chennai.

Dr. N. Sripriya has been recognized as supervisor under the faculty of Information and Communication, Anna University.

Dr. I. Joe Louis Paul, ASP, IT and Ms. S. Sasirekha, AP, IT, were felicitated with the **Best Faculty Award** on the Teacher's day function that took place on Sept., 5 , 2017 at SSNCE.

"Mankind is

made great or

little by its

own will."

-Friedrich

Schiller

Ms. S. Sasirekha AP/IT successfully completed her Ph.D. Viva-Voce examination for the thesis titled **"SOA and Semantic based Middleware Infrastructure for Heterogeneous IoT Architecture"**.

This research has focused on designing and developing a SOA and Semantic based Middleware Infrastructure for heterogeneous IoT Environment (SSMI-hIoT). The primary objective of the designed middleware is to achieve interoperability, interconnection and communication between the heterogeneous devices seamlessly. To achieve this ambitious goal, the middleware design is service provisioned as a layered and adaptable middleware platform.

External Proposal Submissions

Dr. A. Shahina, Professor, Dept. IT, has submitted a project proposal under the MODROBS scheme of AICTE.
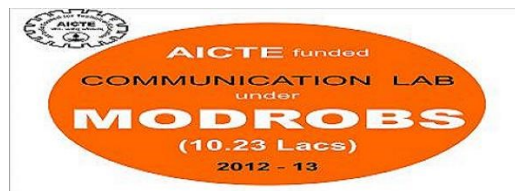
"Life's most persistent and urgent question is, 'What are you doing for others?'"

-Martin Luther King, Jr.

Dr. S. Chithra and Dr. N. Bhalaji, ASP,IT presented their project proposal titled CPSMARS for SWT (CPS based Monitoring, Analysis and Reporting System for Small Wind Turbines) in IISC, Bangalore under DST ICPS scheme .

Dr. S. Karthika, ASP, IT has done following submissions:

- She submitted the proposal titled "Tweet-Scan-Post - Twitter based alert model for privacy disclosure" under the scheme of Early Career Research, SERB .

- She has submitted the proposal titled "Reel or Real (R2) - Assessing Veracity of Rumours across Social Networks" under the Research Promotion Scheme, AICTE

Student Achievements

Harinipriya. K of 3rd year, IT-A participated in Codechef Snackdown 2017 and was ranked 3101.

Chandramowli and Mohamed Siddique, 3rd year, received a cash prize of Rs.1000/- and a certificate of appreciation for their participation in the IEEE MAS SB website contest organized by IEEE Madras Section.

Pooja .S, Pooja Bhaiya and Preethi .S of 3rd year, IT-B won second place at the Web Designing event of the Chennai International Youth Fest 2017.

Industry Interaction

Dr. N. Bhalaji, ASP, IT and Mr. R. Vinobchander, AP, IT, had an interaction with Mr. Fredi Nonyelu, Founder and Chief Executive ,BriteYellow, UK, about possible collaborations in the mutual areas of interest during the meeting held at SSN School of Advanced Career Education.

"One of the most beautiful qualities of true friendship is to understand and to be understood."

- Lucius Annaeus Seneca

IEEE R10 Technology Awareness Programme On Artificial Intelligence And Machine Learning

The IEEE Student Branch of SSN College of Engineering organized 2017 Region 10 Technology Awareness Programme on "Artificial Intelligence and Machine Learning" on 17 August, 2017. The programme was inaugurated by Dr. S. Krishnakumar, Senior Technical Officer, Ministry of Defence, DRDO, Avadi, Mr. H. R. Mohan, Vice Chair, IEEE Madras Section, Mr. Aravindhan A, Teach for India Fellow, Young Professional, IEEE Computer Society. Dr. S. Salivahanan, Principal, SSN College of Engineering, welcomed the gathering.

Mr. Kavin D, Chair, SSN IEEE SB, briefed about the programme, Mr. H. R. Mohan, Vice Chair, IEEE Madras Section shed light on how the SBs are actively organizing activities and the need for the theme of this programme for academia and industry. Mr. A Aravindhan provided his views on benefits of being an IEEE member and renewing membership after graduation. This technology awareness programme received a whooping participation of 166 students from various colleges .

The event comprised of various sessions on Artificial Intelligence and Machine Learning followed by a contest on the end of the event. There were six key note addresses and the speakers included renowned industries, start-ups, academics and young professionals allowing for the programme to serve as a platform for constructive interaction and amalgamation of ideas.

The detailed description of various sessions is as given below:

- Dr. S. Krishnakumar, Senior Technical Officer, Ministry of Defence, DRDO, Avadi, - "Artificial Intelligence in Defence"
- Dr. A. Shahina, Professor, Department of IT, SSNCE - "Artificial Intelligence and Machine Learning in Voice Recognition Systems"
- Mr. Anand Tharanipathy, CEO, Codeboard Technologies - "Machine Learning – Algorithms and Applications"
- Mr. Sundarakumar, Visiting Faculty, SSN School of Advanced Career Education, - "Hands on practice - Machine Learning Algorithms"
- Mr. Akshay Kumar, JRF, SSNCE – Demonstrative Session on "Machine Learning – Biometrics & Pattern Recognition"
- Mr. Mukund, JRF, SSNCE – Demonstrative Session on "Roof Classification on Google Map Images"

The organizers of the programme were Dr. T. Sree Sharmila, SSN IEEE SB Counsellor, Mr. Kavin D, Chair and Mr. Arjun P, Co-chair of SSN IEEE SB.

Alumni Talk Series...

The Alumni Association of the Department of IT conducted a "Three-day Alumni Talk series" from 29.8.17 to 31.8.17. We invited three alumni for the event who were experts in three different domains, they interacted with the students and answered their queries related to entrepreneurship, higher education and career opportunities in the software industry and about software design. All the alumni had good time interacting with the faculties and the students.

"Learning never exhausts the mind."

- Leonardo da Vinci

The alumni talk series was kickstarted by Mr.Nandan [2015 pass-out] by giving a fascinating talk about "Entrepreneurship in Software Industry - Opportunities and Challenges". Mr. Nandan is currently the Co-Founder and R&D Head of Tournament OS. He was also the Chief Technological Officer of Entaag Corp. In his stint in college, he has actively participated is Technical Symposiums, Conferences, and Hackathons and has won several prizes.

In the next day, we had a talk on "Higher education and career opportunities in the Software Industry" by Mr. Ashok Raj Nagarajan [2009 pass-out]. Mr. Ashok currently works at Qualcomm Inc, Chennai as a Software Engineer. He has also worked in Cozybit Inc, Google Inc and Qualcomm, San Francisco. He has also completed his Masters in Computer Science from University of Illinois, Chicago.

The last talk of the series titled "Why design is quintessential for the success of a software product" was given by Mr.Nijin Vinodhan. Mr. Nijin is currently working as a Senior Consultant [UI, UX, Mobile] at Sirius Computer Solutions. He has also worked as a Consultant at Avnet Services.

"The only journey is the one within.

- Rainer Maria Rilke

One important thing I observed through this Alumni Talk Series is that all the alumni we invited, in spite of their busy schedule, squeezed time to attend the event at any cost. They were enthusiastic to talk to their department juniors. They were so happy to meet the faculty and were happily interacting with them about their career and life. I hope more events like these are conducted in the upcoming years, therefore developing a strong network among ourselves.

I want to sincerely thank the Alumni Faculty Coordinators Dr. P. Vasuki and Dr. Bhalaji Natrajan for being instrumental in organising this Alumni Talk series and for their active support, making this series a grand success.

"No act of kindness, no matter how small, is ever wasted."

-Aesop

L Akshay Karthik,
Student Alumni Representative,
Department of IT.

Bhuvan Overview Training

Dr. T. Sree Sharmila, ASP, IT and Ms. R. Swathika participated in the Bhuvan Overview Training program at National Remote Sensing Center, Hyderabad during 2-3 November, 2017.

Bhuvan is a online Geoportal with versatile viewing capabilities such as providing 2D/2.5D/3D photo-realistic pictures draped on image-based footprints for viewing experience, full-fledged interactive thematic services and free data downloads from NRSC Open Earth Observation Data Archive (NOEDA). To familiarize with the entire functionalities and utilities of Bhuvan, share services and take up collaborative applications and inviting participation in crowd sourcing, a 2-day training that comprises overview of all the functionalities on Bhuvan like Visualization, Data download, services provided, Map services, crowd sourcing, applications carried out for Ministries and State Government departments, Disaster Support Services on Bhuvan, Bhuvan Mashups - Developments using APIs and GIS viewers etc., including hands-on exposure on Bhuvan portal was covered.

"If you cannot do great things, do small things in a great way."

-Napoleon Hill

Conclave on Cyber Security (CCS'17)

The Conclave on Cyber Security (CCS'17) was organized by the Department of Information Technology at SSN College of Engineering coordinated by Dr. S. Karthika, ASP/IT, Dr. S. Chithra ASP/IT and Dr. N. Bhalaji, ASP/IT, in association with IEEE Computer Society Madras Section and National Cyber Defence Research Centre (NCDRC). The objectives of the conclave on cyber-security attempted to bring together cyber-security experts, academicians, and IT industry representatives under one roof.

"The journey of a thousand miles begins with one step."

- Lao Tzu

The conclave started with the welcome address by Dr. N. Bhalaji, ASP/IT, Co-ordinator CCS'17. It was followed by the keynote lecture delivered by Mr. Sathish Ashwin, Head Research & Operations, National Technical Committee, National Cyber Defence Research Centre (NCDRC), India. Dr. S. Chithra, ASP/IT and Dr. S. Karthika, ASP/IT, Co-ordinators CCS'17 introduced the participants to the technical jargons in the field of cyber security to ease their understanding of the day.

This talk was followed by parallel sessions handled by Dr. Harish Ramani, Director & Chief Technology Officer, Internettechies Solutions Pvt. Ltd addressing the Ifs and BUTs of cyber security to UG students. In the hands-on session, Dr. Harish and Mr. Vignesh introduced the students to many security tools. The event had highly interactive participants.

"Not all those who wander are lost."

- J.R.R. Tolkien
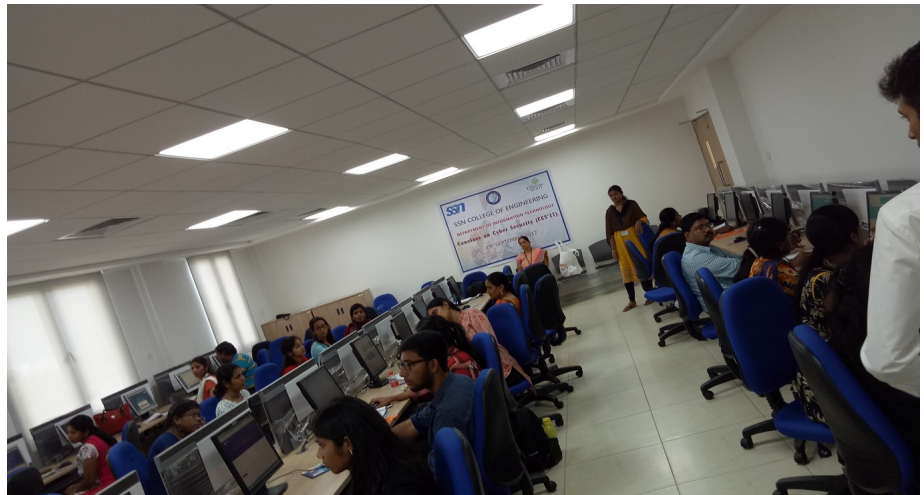
One Day Workshop on Anamorphic Image Processing with Hands-on Practice

"Tell me and I forget. Teach me and I remember. Involve me and I learn."

- Benjamin Franklin

The one-day workshop on Anamorphic Image Processing with Hands-on Practice was organized by the Department of Information Technology, SSN College of Engineering and coordinated by Dr. R. Srinivasan, Professor, IT and Dr. T. Sree Sharmila, ASP, IT on 06 October, 2017. The objective of this workshop was to understand the anamorphic illusions. The participants learnt to produce simple anamorphic illusions manually as well as in the system, and finally, given an ordinary image, how to automatically convert them into anamorphic images (also sought using simple image processing steps). The event was lead by Dr. R. Srinivasan, Professor, IT, SSNCE and the hands-on sessions were handled by Ms. Pavithra L K, Research Scholar, SSNCE.

Breast Cancer Awareness Program

The event titled- **"Breast Cancer Awareness Program"** was conducted by the IEEE WIE, Affinity Group, SSN College of Engineering. The awareness drive was organized at the Department of Information Technology. The event was led by Dr. Prema Jayaprasad, Sr. Consultant Obstetrician & Gynaecologist Chettinad Super Specialty hospital. This event was aimed at creating awareness that 1 in 8 women have the odds of getting breast cancer. This program focused on creating awareness about breast cancer symptoms and signs, and also clarified that the presence of these symptoms and signs do not automatically mean that you have breast cancer. The doctor shared tips on self examination to identify any changes. The event witnessed an active participation of faculty members and research scholars from different departments.

"A leader is one who knows the way, goes the way, and shows the way."

- John C. Maxwell

Professional Development Program

Dr. N. Bhalaji, ASP, IT, Dr. V. Thanikachalam, ASP, IT, Mr. R. Vinobchander,, AP, IT and Mr. K. Kabilan, AP, IT started handling SSN - PDP (professional development program) classes for second batch of students admitted through Redington CSR scheme.

Workshop On Coding Methodology

Dr. T. Sree Sharmila, ASP/IT & Dr. S. Karthika, ASP/IT conducted Workshop on Coding Methodology under IEEE SB and IEEE WIE, SSNCE on August 22, 2017. This event was aimed at making the students understand their coding strength, and was encouraged by more than 65 participants from student fraternity. The event was lead by Mr. Sridher Jeyachandran, Product Manager, Google and was co-ordinated by Mr. Arjun P, Vice Chair, IEEE SB, Mr. Chandramowli J, Web architect, IEEE SB and Mr. Murugappan S, Vice Chair, WIE. The session was active with many interactive audiences.

Guest Lecture

Dr. N. Bhalaji, ASP, IT has delivered the following talks:

- He delivered a guest lecture on "Internet of Things" to final year students of Sri Sairam Institute of Technology, Chennai.
- He delivered a keynote talk on "An IoT journey from Smart to Social objects" during International conference "ICMCE 2017" organized by VIT university, Chennai Campus.
- He delivered a guest lecture in the topic of " How to identify journals?" at Tagore Engineering college, Chennai
- He delivered a guest lecture on "Internet of Things (IoT): A vision and on-going research opportunities" for students of CSE at SRM University

Dr. N. Bhalaji, ASP, IT and Mr. K.B. Sundharakumar (Junior Research Fellow, IT) Delivered a talk on "IoT Analytics" in the conclave on Professional Development in Business Analytics organized by SSN School of Advanced Career Education, Chennai.

Dr. T. Sree Sharmila, ASP, IT delivered a talk on "Image Enhancement Applications" in the Faculty Development Program on Digital Image Processing organized by the department of Electronics and Communication Engineering, SSNCE during19-25 June 2017.

Dr. S. Karthika, ASP, IT presented the following talks:

- She presented a talk titled "Opinion Mining in Social Media " in AICTE sponsored Three Days Seminar on Opinion Mining conducted by department of Computer Science, Anand Institute of Higher Technology, Chennai.

"Nothing is worth more than this day."

-Johann Wolfgang von Goethe

Guest Lectures Organized

- Dr. N. Bhalaji, ASP,IT conducted a seminar on the topic of "Adhoc Sensor Networks-Significance & Application" at Department of IT, Jerusalem College of Engineering, Chennai.

- Ms. Swathika .R, AP, IT & Mr. A. SandanaKaruppan, AP, IT organized guest Leture on "Latest Trends in IT (The new Style of IT)" by Mr. Ramkumar Rathinam, Operation Manager, HP, Chennai for III year IT students.

- Ms. Swathika .R, AP, IT & Mr. A. SandanaKaruppan, AP, IT organized guest Leture on "Enterprise Trends in DBMS" by Mr. Muralidhar Dhandapani, Senior Consultant, Srinius Computer Solution, Chennai for II year IT students.

- Dr. T. Sree Sharmila, ASP, IT organized All India IEEE Computer Society Student and Young Professional Congress 2017 at Justice Pratap Singh Auditorium, SSN College of Engineering.

FDPs And Seminars

Mr. V. Sivamurugan, ASP, IT attended the following:

- He attended a three day FDP on "Python Programming" organized by Dept. of IT/CSE, St. Joseph's College of Engineering, Chennai.
- He participated in a two day workshop on "Embedded Systems using Raspberry Pi Boards (IOT)" organized by Dept. of EIE , Jerusalem College of Engineering, Chennai.
- He had attended a Training Program on IOT With Arduino conducted by MAKERS AREANA in Chennai
- He had also attended a Workshop on Python conducted by Top Engineers at IIT Madras Research Park Chennai.
- He attended a Hands-On Workshop on Deep Learning for Computer Vision Applications organized by VIT University Chennai.
- He attended AICTE sponsored Two Weeks Faculty Development Programme on Deep Learning for image and Text Analysis: Principles, Techniques and challenges Organized by Dept. of CSE, SSN College of Engineering.

Ms. T. Shanmughapriya, AP, IT has attended Summer School on Privacy and Security in Online Social Networks held at IIIT Hyderabad from 3rd to 7th July,2017.

Mr. V. Arulkumar, AP, IT attended a seven days Faculty Development Program on "Data Science and Big Data Analytics" Organized by E & ICT Academy, IIT Guwahati held from 11-17 Sept, 2017 at Bannari Amman Institute of Technology, Sathyamangalam.

Dr. N. Bhalaji, ASP, IT attended a two days "Indian IoT congress" held at Park Plaza, Bangalore hosted by IET, UK

Dr. S. Karthika, ASP, IT has attended 4th Workshop on Text Analysis & Information Extraction (TIER) conducted by Department of CSE, SSNCE.

Ms. S. Vidhusha, AP, IT, Ms. J. Sofia Jennifer, AP, IT, and Ms. J.K. Josephine Julina, AP, IT, attended Anna University sponsored seven days "Faculty Development and Training Programme on Digital Image Processing" organized by the Department of ECE, SSN CE.

Faculty members **Dr. S. Karthika, Dr. N. Sripriya, Dr. S. Poornima, Ms. Srividya, Mr. V. Arulkumar,** participated in the Conclave on Professional Development in Business Analytics organized by SSN School of Advanced Career Education, Chennai.

Ms. S. Uma Maheswari, AP/IT, Ms. S. Vidhusha, AP/IT and Ms. J. Sofia Jennifer, AP/IT attended the two day hands-on workshop on Python Programming organized by the Department of Computer Science at the College of Engineering, Anna University, Chennai.

Mr. Arulkumar and Mr. A. SandanaKaruppan, AP, IT attended in QIP Sponsored Short Term Course on "Security issues and testing challenges in hybrid it infrastructure with cloud computing and artificial intelligence" organized by Pondicherry Engineering College, Puducherry.

Dr. S. Chithra, ASP, IT, Dr. K. R. Uthayan, ASP, IT, Ms. S. Vidhusha, AP, IT & Ms. J. K. Josephine Julina, AP, IT attended FDP on "Digitization and its Transformation" at Cognizant Technology Solutions, MEPZ, Chennai

"Each day provides its own gifts."

-Marcus Aurelius

Mr. V. Arulkumar, AP/IT and A. Sandanakaruppan, AP/IT attended a talk on Cloud Computing organized by Computer Society of India, Chennai Chapter, IEEE Computer Society, Madras Chapter, IEEE Technology and Engineering Management Society, Madras Chapter at Seminar Hall, CSI Education Directorate, Taramani, Chennai – 600113.

Dr. A. Shahina, Prof, IT, Dr. N. Bhalaji, Dr. P. Vasuki, Dr.S.Poornima, ASP, IT and Ms. S. Uma Maheswari, AP, IT attended a tutorial session on "Scalable DEEP LEARNING based Recommender Systems using TensorFlow" organised by Department of CSE, SSNCE.

Dr. S. Chithra, ASP/IT and Mrs. Shanmugapriya, AP/IT had participated in the Continuing Education Program on "Secure System Engineering" organized by the Department of Computer Science and Engineering, IIT Madras from 5th Dec to 14th Dec, 2017.

Ms. R. Swathika & Ms. S. Sasirekha attended the All India IEEE Computer Society Student and Young Professional Congress 2017 at Justice Pratap Singh Auditorium, SSN College of Engineering. Fro 17th to 19th Dec,2017.

E.M. Malathy, AP/IT and N.Radha AP/IT presented paper titled " Video Redundancy investigation and Cooperative cache model in wireless Network" in Springer Third International Conference on Information and Communication Technology for Competitive Strategies at Udaipur, India on December 17,2017.

"We know what we are, but not what we may be."

- William Shakespeare

விகடனில் என் பயணம்

'பிறப்பொன்று கொண்டோம் பெயரொன்று கொண்டோம்.

உடல் பிழைக்க பட்டங்கள் பெற்றாலும்,

உயிர் பிழைக்க பிடித்ததை இன்னும் கெட்டியாக பிடித்திடு, படித்திடு."

எழுத்துக்களும் எழுதுதலும் எவ்வளவு பிடிக்கும் என்பதை எழுத்துக்களால் விளக்கிட இயலாது. தமிழுக்கான எனது பயணம் திட்டமிட்டு தொடங்கவில்லை என்றபோதும் நான் அதில் சிறப்பாகவே பயணிக்கிறேன். ஆரம்ப காலத்தில் தமிழ் என்றால் அழுதுக்கொண்டே படித்த எனக்கு தமிழ் அமுதென்று உணர்த்தியவர்கள் என் தாயும் என் தமிழ் ஆசிரியை சுமதியும் தான், வீட்டிலும் வலைத்தளங்களிலும் கிறுக்கிக்கொண்டிருந்த எனக்கு விகடன் மாணவப் பத்திரிகையாளர் திட்டத்தில் சேர தளம் அமைத்துக் கொடுத்தது நம் கல்லூரி சாரல் தமிழ் மன்றத்தின் உறுப்பினர்களுடன் கொண்ட நட்பு .

தேர்வு முறை:

மூன்று கட்டங்களாக நடத்தப்பட்ட எழுத்து, பேச்சு மற்றும் நேர்காணல் தேர்வுகளின் முடிவில் தமிழகம் முழுவதும் 72 மாணவர்கள் தேர்ந்தெடுக்கப்பட்டார்கள். முதல் கட்டமான எழுத்து தேர்வில் விகடன் ஆசிரியர் கொடுக்கும் தலைப்பு ஒன்றிற்கு 4000 வார்த்தைகளுக்கு மிகாமல் கட்டுரை எழுதி தபாலில் அனுப்பவேண்டும். அதில் தேர்வுபெற்றவர்கள் அடுத்த கட்ட எழுத்து தேர்விற்கு அழைக்கப்படுவார்கள். நம் சமயோசித்த திறன், சிந்தனை வளம், மொழி வளம், உலக நடப்புகள் என அனைத்தையும் சோதிக்கும் எழுத்து முறை தேர்வு நடைபெறும். அதில் தேர்ச்சி பெறுபவர்களுக்கு அடுத்தக் கட்டமாக நேர்முகத் தேர்வும்,

"When dealing with people remember you are not dealing with creatures of logic, but creatures of emotion."

- Dale Carnegie

செய்தி சேகரிப்பு மற்றும் செய்தி வெளியீட்டு திறனறிதளுக்கான தேர்வுகள் நடைபெறும். செய்தி சேகரிப்பு திறன் தேர்விற்கான இடமாக சென்னை எம்.ஜி.ஆர் சமாதி எனக்கு ஒதுக்கப்பட்டது. அங்குள்ள வியாபாரிகளிடம் பேசிய போது அவர்கள் அங்குள்ள மக்களின் எண்ண ஓட்டங்களையும் எதிர்பார்ப்புகளையும் என்னால் உணரமுடிந்தது.

விகடனில் என் பயணம்:

ஒரு எழுத்தாளராக என்னை நான் உருவகப்படுத்த நினைத்தே விகடனில் அடியெடுத்து வைத்தேன். ஆனால் விகடன் என்னுள் இருக்கும் பத்திரிக்கையாளரை வெளிக்கொணர்ந்தது. 2017, ஜூலை மாத இறுதியில் தொடங்கிய இந்த பரிமாணம், புற்றுநோய் விழிப்புணர்வு நிகழ்ச்சிகள், நவராத்திரி சிறப்பு கொண்டாட்டங்கள், கண்காட்சிகள், திரையுலக நட்சத்திரங்களுடன் கலந்துரையாடல், தனித்தன்மை கொண்ட மனிதர்களுடன் சந்திப்புகள், தமிழ் வழி தொழில்நுட்ப கட்டுரையாக்கம், மக்களின் மனதில் பெண்ணியம், சமூகச் சிந்தனைகள், எழுச்சியும் ஊக்கமும் கொடுக்கும் தனிநபர்களின் வாழ்க்கை வரலாறுகள், 30 ஆண்டுகளாக எச்.ஐ.வி-யுடன் போராடி ஆதரவற்ற குழந்தைகளுக்கு அடைக்களம் கொடுக்கும் திருநங்கையுடனான சந்திப்பு என நீண்டுக்கொண்டே போகிறது. நம் கண்முன் நடக்கும் எந்த ஒரு நிகழ்விலும் சுவாரஸ்யங்களை அடையாளம் காணும் மனம் மட்டுமே இதற்கு போதுமானது.

விகடனில் மாணவப் பத்திரிகையாளர் எனில்?

இன்றைய மாணவர்கள் துடிப்புடனும் படைப்பாற்றலுடனும் இருக்கிறார்கள். அவர்களின் சக்தியை சரியான முறையில் முதலீடு செய்வதே விகடனின் மாணவப் பத்திரிக்கையாளர் திட்டம். திட்டம் தொடங்கி ஒராண்டு வரையில் விகடன் குழுமத்துடன் இணைந்து பணியாற்றும் வாய்ப்பு கிடைக்கும். நமக்கு எந்த துறையில் ஆர்வம் உள்ளதோ

அதை தேர்ந்தெடுத்து நம் படைப்புக்களை சமர்ப்பிக்கலாம். எழுத்தாளர் மட்டும் அல்லாமல், புகைப்பட கலைஞர்களுக்கான களமும் இங்குண்டு. பொது துறை, அரசியல், பெண்கள் மற்றும் குழந்தைகள், ஆன்மிகம், அறிவியல் மற்றும் தொழில்நுட்பம், கலை, இலக்கியம், நகைச்சுவை, மோட்டார் வாகனங்கள், விவசாயம், மனம் மற்றும் உடல் வளம் என ஏராளமான துறைகளில் நாம் பணியாற்ற வாய்ப்புகளும் ஊக்கமும் வழங்கப்படும்.

ஆய்வு மாணவியாக இருக்கும் என்னால் இதற்கெல்லாம் நேரம் ஒதுக்க முடியுமா என்ற கேள்வியுடனேயே நாள் ஒன்று தொடங்கியது முதல் இன்று வரை பயணிக்கிறேன். இதில் எழுதியது மட்டும் இன்றி நான் கற்றுக்கொண்ட நுணுக்கங்கள், சந்தித்த மனிதர்கள், கடந்து வந்த அனுபவங்கள் அனைத்துமே 'எ மொமென்ட் போர் லைப்' போன்றது.

காலச்சக்கரம் ஓடும் வேகத்திற்கு ஈடு கொடுத்து ஓட நம்மால் முடிகிறதோ இல்லையோ, நாம் ஓடும் வழியில் நமக்கு பிடித்த பூக்களின் வாசமும் பாடல்களும் ஒலித்துக்கொண்டே இருந்தால் வரும் வேகத்தடைகளை எல்லாம் எளிமையாக கடந்து விடலாம். அப்படிப்பட்ட பாதையை அமைத்துக்கொள்வதில் சிரமங்கள் இருந்தாலும் சிகரங்கள் வெகு தொலைவில் இல்லை. 91 ஆண்டு காலம் தொன்மை பெற்ற ஒரு தலைசிறந்த பத்திரிக்கை நிறுவனத்தில் ஓராண்டு பணியாற்ற வாய்ப்பு கிடைத்தை வரமாக கருதுகிறேன். இதற்கு என்னை ஊக்குவித்து, ஒவ்வொரு தேர்வின்போதும் என்னை வாழ்த்தி அனுப்பிய என் மேற்பார்வையாளர் திருமதி .எஸ். கார்த்திகா அவர்களுக்கும் எனது நண்பர்கள் அனைவர்க்கும் எனது நன்றிகளை உரித்தாக்குகிறேன்.

Geetha R

Research Scholar

அப்பா

வறுமையிலும் என் முகம் வாடாமல் பார்த்துக்கொண்டாய்

தாய் பால் தராத போதும் மார்பில் என்னை

அணைத்து தாயென மாறினாய்

பத்து மாதம் சுமக்காத காரணத்தாலோ என்னவோ

உன் முதுகில் என்னை சுமந்து கொண்டாடினாய்

உன் கண்ணீரை என்றுமே நான் கண்டதில்லை

அப்பா......!!!

என் வெற்றியில் நீ சிந்தும் ஆனந்த கண்ணீரே

உனக்கு நான் தரும் பரிசு

"Everything has positive and negative consequences."

-Farrah Fawcett

இயற்கை

சுட்டெரிக்கும் சூரியன் இல்லை என்றால்
மழையின் அருமை தெரிந்திருக்காது

நடுங்கும் குளிர் இல்லை என்றால்
சூரியனின் நன்மை புரிந்திருக்காது

கவலைகள் வாழ்க்கையில் இல்லை எனில்
இறைவனின் மகத்துவம் தெரிந்திருக்காது

சென்னையில் வெள்ளம் வாராமல் இருந்திருந்தால்
இளைஞர்களின் பலம் தெரிந்திருக்காது

சுனாமி தாக்காமல் இருந்திருந்தால்
உயிரின் மதிப்பு புரிந்திருக்காது

செயற்கையின் தாக்கம் இல்லை எனில்
இயற்கை இவ்வளவு அழகு என எவருக்குமே தெரிந்திருக்காது

முதலிடம்

கண்களை காக்கும் இமைகள் கருப்பு

பெண்களுக்கு அழகு சேர்க்கும் குழல் கருப்பு

காக்கும் எம் இறைவனின் நிறம் கருப்பு

காதல் மன்னன் கண்ணனின் நிறம் கருப்பு

மழை தரும் கார்மேகங்கள் கருப்பு

எனினும்,

மனிதர்களுள் வெண்மைக்கே முதலிடமோ?

"The only reason to have a positive mental attitude is that it makes life better. It doesn't cure cancer."

-Molly Ivins

Dharshini S
IT-A, III Year

Competitive Programming and Placements

H aving at least 2 offers from core companies is a dream for any undergrad. Many students work hard to achieve this feat. I have seen many IT/CSE students taking part in competitive programming to get placed. Before going further lets understand what competitive programming is.

Competitive programming is a mind sport usually held over the Internet or a local network, involving participants trying to program according to provided specifications. Contestants are referred to as sport programmers. **[Ref: Wikipedia]**

"Try to be a rainbow in someone's cloud."

- Maya Angelou

It is just like any other sport and the students taking part in it are just like sportspersons. What I'm try to convey is that students must take part in competitive programming only based on passion and not based on fear of placements. As of now I have briefed upon how to take part in competitive programming and how not to. Now let's take a look at some of the hurdles faced by competitive programmers.

- **Late Start**
  We say that we are the leading producers of software engineers but we have never reached the top 10 in ICPC (Inter Collegiate Programming Contest – Olympics for computer programmers)

Many students start competitive programming only during their college. People say "Its never too late to do something" and it applies for competitive programming too but the catch is that only undergrads are allowed to take part in ICPC. Participants from all over the world start CP when they are in the 6th grade itself. It is a herculean task to win the title amongst those kind of contenders. So if you feel that some kid is smart then please indulge the kid in CP. This is where our country struggles. We try to stuff everything in the syllabus but why does a student who wishes to join CS in IIT need to study Chemistry for JEE? Just basic knowledge of chemistry would suffice his/her needs in the future, would it not?

- **Lack of time**

  Everyone would laugh if I say that I don't have time but it is actually true. Competitive Programmers from India need a lot of practice to catch up with foreign participants for their lost time in the school days. So many people who are very serious about making into ICPC sacrifice their joy. I don't strongly recommend it because college life is limited but still if the crave for making into India finals is greater than any other thing then we cannot do anything other than continue coding.

- **Confusion between Placements and CP**

  Doing CP gives you a high probability of getting placed but as I already said it must not be the only motto. Think of placements as a by-product of CP and never stop CP as you get placed.

Since the space allotted for the articles are limited, I attach my Quora answer for other problems and ways to overcome them. (https://www.quora.com/Can-you-tell-me-the-mistakes-that-you-think-you-made-while-practicing-competitive-coding/answer/Murugappan-Sekar?srid=uma6v)

"Be who you are and say what you feel, because those who mind don't matter and those who matter don't mind."

- Dr. Seuss

S Murugappan

IT-A, III Year

Blockchain: The Invisible Technology

Large swaths of your digital life will soon run atop a blockchain foundation just beneath the surface—and you may not even realize it.

B lockchain isn't a household buzzword, like the cloud or the Internet of Things. It's not an in-your-face innovation you can see and touch. But in a world where anyone can edit a Wikipedia entry, blockchain is the answer to a question we've been asking since the dawn of the internet age: How can we collectively trust what happens online?

The blockchain is an undeniably ingenious invention – the brainchild of a person or group of people known by the pseudonym, Satoshi Nakamoto. But since then, it has evolved into something greater, and the main question every single person is asking is:

What is Blockchain?

"The blockchain is an incorruptible digital ledger of economic transactions that can be programmed to record not just financial transactions but virtually everything of value."

By allowing digital information to be distributed but not copied, blockchain technology created the backbone of a new type of internet. Originally devised for the digital currency, Bitcoin, the tech community is now finding other potential uses for the technology.

Blockchain is a historical fabric underneath recording everything that happens—every digital transaction; exchange of value, goods and services; or private data—exactly as it occurs. Then the chain stitches that data into encrypted blocks that can never be modified and scatters the pieces across a worldwide network of distributed computers or "nodes."

The idea of decentralization

By design, the blockchain is a decentralized technology.
Anything that happens on it is a function of the network as a whole. Some important implications stem from this. By creating a new way to verify transactions aspects of traditional commerce could become unnecessary.
A global network of computers uses blockchain technology to jointly manage the database that records Bitcoin transactions. That is, Bitcoin is managed by its network, and not any one central authority. Decentralization means the network operates on a user-to-user (or peer-to-peer) basis. The forms of mass collaboration this makes possible are just beginning to be investigated.

Beyond Bitcoin

Blockchain is the data structure that allows Bitcoin (BTC) and other up-and-coming crypto currencies such as Ether (ETH) to thrive through a combination of decentralized encryption, anonymity, immutability, and global scale.

A "trustless system" doesn't mean it's a system you can't trust. Quite the opposite. Because the blockchain verifies each transaction through PoW, this means no trust is *required* between participants in a transaction. Where does the proof-of-work come from? The miners. A P2P network of Bitcoin "miners" generates PoW as they hash blocks together, verifying transactions that then go into the ledger.

"Do not set yourself on fire in order to keep others warm."

- Anonymous

"When I send you an email or a PowerPoint file, I'm actually not sending you the original; I'm sending you a copy. That's great, and it has democratized information. But when it comes to assets; things like money, financial assets like stocks and bonds, loyalty points, intellectual property, music, art, a vote... sending you a copy is a really bad idea. If I send you $100, it's really important that I don't have the money afterward."

That's the basic overview about the next big thing that is going to cause a huge revolution in the area of Computational technology.

"Be yourself; everyone else is already taken."

- Oscar Wilde

Vignesh M

IT-B, III Year

Have the courage to walk alone!

"The woman who follows the crowd will usually go no further than the crowd. The woman who walks alone is likely to find herself in places no one has ever been before." ~ Albert Einstein

"Those who don't believe in magic will never find it."

- Roald Dahl

That is one of the famous quotes which embraces the idea that in order to live, we must not follow, but lead ourselves. You learn to be better than you were yesterday and realize dictating your own life is more beneficial than using someone else as your example . Many influential people in the world walked alone, they realized their potential was only limited when they compared themselves to someone else.

Life is Wonderful with plenty of things that human being may require. But we also realize that this is beautiful with innumerable hardships and is not that easy. Pain and suffering are a part of it which senses us to be alive. Every one of us has our own story and in that story there is adversity, which at times is terrible. As enlightenment is an individual experience, facing the hardships and adversity is also purely an individual experience.

Gradually, we start weaving cobwebs of attachment and intricate relationships as we grow from our childhood.

For some time, the illusion of social relations makes us feel safe and secure. Only through our love and friendship can we create the illusion for the moment that we are not alone

'Go your way alone', to lead the journey of life in a fabulous way.

Perhaps we are totally alone psychologically and each being starts as a loner and ends up as a solitary explorer; loneliness remains at both the points of entry and the exit.

But at the same time, it is also a scientific fact that everything is cohesive and fitted into one another .That is what is known as universal consciousness and we cannot exist outside consciousness.

"There is no elevator to success - you have to take the stairs."

-Anonymous

R Narayana Lakshmi
IT-A, III Year

The Indian society

The title itself can be used as a synonym for the word Bigots or a stereotypic group of people. India, being a developing country, is transforming a lot but the mindset of the people hasn't changed much. My father used to have a telegram in his pocket whereas I have an apple iPhone 6s phone in my handbag. My mom used radio for whiling away her leisure time whereas I rely on Facebook and other social networking sites . But the perception of girl going out after 6'o clock hasn't changed at my home.

When a baby is about to be born, a huge crowd waits outside as if a World Cup match is going on. The entire crowd prays for a baby boy who is considered as the trophy. Then what about a baby girl? This cute princess will be considered as "duck out". The must remember fact is every child is born in the lap of mother who herself is a lady. But ironically, the mother herself prays for a baby boy. If at all the wish of the crowd and mother is fulfilled , the baby boy is born. The emotional crowd will be overjoyed and says "The engineer is born". Aren't you puzzled? This shows how ambitious the society is ! Can anybody explain the logic behind boy becoming an engineer and girl a doctor? This is what an absolute stereotypic thinking is. There is also a Shakunthala Devi who is born in the same place as of Ramanujan . My brother goes out for a movie at 9 pm and I have to fight for an outing at 9 am with my friends. When a boy sits lazy at home, elders say "who will feed you in your future?" whereas for girl they say" your in-laws will be upset with you, please help your mom". The most common dialogue heard by all the girls is "Don't get tanned much! We cant afford much dowry!" Have you heard this? Is it based on the complexion of the bride, that the bride groom will decide a rate tag to get him sold away. Doesn't it seem like an auction?

"If you want to know what a man's like, take a good look at how he treats his inferiors, not his equals."

- J.K. Rowling

The society has been too stereotypical towards girls. A girl should not laugh out, scream loud, dress modern and go out. I know it's hard to believe; not all, but many houses are still in this situation. Actually I do belong to one such family, but I was never brought up like that. My mom gifts me jeans and my dad takes me to tennis court. They encouraged me in all aspects that I choose. But still I shouldn't get tanned and speak loudly. I am named a tom boy by my family and friends. It might be because of the dresses I wear or the way I behave but I never minded it. The only thing I wondered was why is it stereotypically fixed that only a boy is allowed to do such things. The irony of the writing is that, I am one such girl who was born despite of my mom prayers for a baby boy. Hoping to see a better society with no boundaries and restrictions.
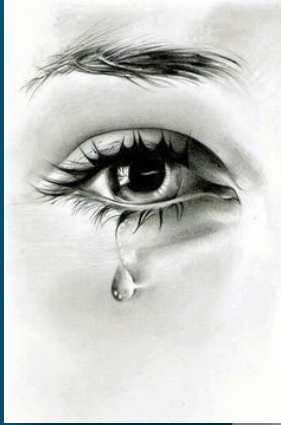
Varshita Damodarapatruni

IT-A, III Year

"To live is the rarest thing in the world. Most people exist, that is all."

- Oscar Wilde

The Unspoken Bond

Howls wailed in the distant
On a rain soaked night
White as a ghost, her face contorted,
Those flecks of joy,
Replaced with an eternity of gloom
The dimpled smile
With quivering lips,
The gleam in her eyes
With wetness,
That continued to flow seamlessly
Down her cheeks,
On the thought of those fond reveries of the past,
That echoed deep In her heart,
Which she never wanted to lose,
To which she gave herself,
Failing to win In the present
As she let that stroke on her wrist,
Which bore his charm,
Let the nectar of life flow,
Relishing the pain,
Awaiting to join in him hell or heaven
To make it their own paradise
His Juliet,
Now a queen among the shadows.

"Life is the

messy bits."

-Lise Friedman

Gautham Krishna

IT-A, II Year

From One Indian Girl

Can I dazzle in the darkness as the luminescence,

And not be strung to walls of my home beyond eve afraid of repercussions.

Can I hold your hand and laugh aloud,

And not get judged for being a girl and making a sound.

Can My sister and I not complete your dreams In anyway My Mother,

Then Why with your disappointment on your gender, You go for another

Can I not be made to fizzle apart as effervescence,

Instead make the world aware of a strong presence.

Can I be allowed into the fields of services to defend my nation,

Is it necessary I need to be stallion not mare to even have a vision ?

Can I for once be not be aware of my sex by "You are a girl " Phrase

I know its my gender that never ceases to Amaze.

Can my age not become a big barrier and reduce my worth in marriage market,

"With age comes wisdom " Is that phrase worth only for The Men's Pockets ?

Can I be made aware of why I am in need of constant male Defense,

Are the so called Laws of Equality A Pretense ?

"Without hard work nothing grows but weeds."

-Gordon B Hinckley

Srividhyasaradha K

IT-B, II Year

Colors

Most of us have this queer habit of being attracted towards colors. We perceive colors just as we perceive taste. Attraction towards colors is quite natural since it is a human being's way of perceiving things in this world. Personally , I believe that colors and their monochromatic components are kind of a visual treat for everyone. Just so you know, observing monochromatic colors is also considered a type of meditation. This is what drives us in the first place in the universe.

All the colors scientifically are mere white color diffracted from a prism. Just wonder how this thin white strip articulates to form beautiful patterns. It is said that colors have some significant effect on the human brain and eventually on the body. There are four psychological primary colors - red, blue, yellow and green. They relate respectively to the body, the mind, the emotions, and the essential balance between these three.
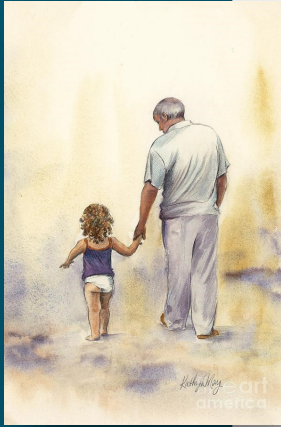
We get flattered by bright and vibrant color shades at any given time. We humans get attracted to them. Some lack the ability to differentiate among the colors except primary colors. Green has a calming effect on our body. Cleanliness and simplicity is one of the positive effect from white. Emotional balance is given by the black.

We are just fortunate to experience this wonderful creation by the God. Keep your life as colorful as possible to get all these emotions into you to lead a beautiful life.

"Never complain and never explain."

-Benjamin Disraeli

Swedha Aravindan

IT-B, III Year

Words' Worth

The 7 o'clock morning mob was
On its usual hurried stride.
Suit, shoes and ties done smart,
Bustled in the pavement wide!

An old man, amidst the feet that sped,
Sat on the sidewalk, habitually,
With his piggy bank and a board that read-
I'm blind, please help me! Blessed may you be!

Some passers-by, into his piggy bank,
Flipped a coin or two by chance,
While others maintained their usual pace,
Hearts of stone, upon a quick glance!

On her way to school, little Tina stopped,
Exclaimed at his message and shook her head.
Snatching the board, she scribbled on to it,
Smiling, she displayed her note and sped!

To his astonishment, as the day rolled on,
Not coins but notes filled his piggy bank.

"If you don't ask, you don't get."

-Stevie Wonder

Wondering what were those magic words,

He waited for the child he longed to thank!

They were appealing words of worth, he thought

When, "Hi Grandpa, it's me", chirped she,

"My darling child", cried the old codger"

"What were those words you wrote for me?"

"I wrote the same thing but in different words",

She said," I didn't plead that you were hard hit!"

Instead, "It's a beautiful day but I only feel it in my heart,

Cuz through my God gifted eyes, I can't see it!!"

"You never

know what

motivates

you."

-Cicely Tyson

Jananie R Balaji

IT-A, II Year

AI to create more AI

When you are fascinated by thoughts of a future where robots make our lives better, there is no question that artificial intelligence is here to stay. At the annual Google I/O conference, the company introduced what may be the most jaw-dropping AI innovation,"AutoML" - a technology that can utilize neural networks to teach itself.

The Wikipedia definition for neural network goes as follows – "An artificial neural network is an interconnected group of nodes, akin to the vast network of neurons in the brain". It consists of large number of processors in parallel arranged in tiers. The input to the first tier is raw information. The inputs for the successive tiers are the output of the preceding tiers.

To be put in a simple way, neural network consists of interconnected neurons that work at the same time to solve a problem. Machine Learning is also becoming a popular but one of the problems associated with that is the shortage of the experts who can make that software. This is where AutoML comes to play. AutoML is used to create an ML software that creates another ML software. This uses the "Reinforcement learning approach". A set of candidate neural nets are taken, iteration is done on these nets in order to get the next best neural net. Google's early testing of the AutoML shows that the technology may be faster and more efficient to create ML networks that beat humans.

When two researchers Quoc Le and Barrett Zoph tasked an ML system to find a software that can solve tasks such as recognizing images and languages, came up with a solution that was comparable to the best human solution.

"The world is not a wish-granting factory."

- John Green

Google's MI is still at an early stage but it has the potentiality to accelerate the entire field of Artificial Intelligence fast than ever imaginable, that can improve the human lives in the best way possible.

"Knowing Is Not Enough; We Must Apply. Wishing Is Not Enough; We Must Do."

- Johann Wolfgang Von Goethe

Sruthi C
IT-B, III Year

Music: Then and Now-As I see it

What is music? This question has different answers. This is a reflection of how popular music has changed over the years.

Old songs, be it those from MGR and Shivaji films or those by Ilayaraja, remain Evergreen favorites - why is that? Though times have changed, people still listen to those songs. The reason, I feel, is that it is lively, soulful music. They are songs that linger not just because of the lyrics, but also because of the tunes. Music is a combo of both! Good music is something that conveys a wide range of feelings. Such is its magic! In those days, we didn't have to go through the video to understand and appreciate a song. The visuals were just an addition to the music. This has changed nowadays. In addition to that, they could be sung and heard even without the accompaniments, with the 'magic' intact! The tunes were so full of life but most of the songs today, wouldn't be complete without all the electronic gadgets and the 'special effects'.

We have always had a tradition of absorbing the best aspects of music from several sources. The ragas like Hameerkalyani and Yamunakalyani have been imbibed from the North. The "nottu swaram" ascribed to Dheekshithar sounds classically western! Another instance is one where Patnam Subramania Iyer, famous as the composer of "Raghu vamsa sudha" in raga Kadhanakudhukalam was inspired by the tunes played by the musicians of the East India Company!

From absorbing the best, we have now come to the extent of incorporating the not-so-good aspects too, I am afraid. This is not good news. If this continues, we may end up with a situation where Western music is heard (or seen!) better than ours. This will surely happen in the future, given the present trend of our

"You will never win if you never begin."

-Helen Rowland

music sounding so western, to the extent of us not being able to even differentiate between Tamil and English songs without listening intently, for the lyrics! This has happened to me several times! And it is so shameful! We shouldn't lose our identity! The problem with us Indians is that we always look for endorsement by Westerners even to appreciate something that is our own!

The meaning of popular music is something that can be debated about. Let us consider a situation here: a new song is released, and there is this person who is not exactly enamored of the song but hesitates to voice an opinion about the song when he/she discovers that all the peers are absolutely crazy about it! Feeling isolated, the person decides to listen to it a few times more, considering all the hype about it. After becoming familiar with the song, anticipating certain parts of it, eventually the person comes close to liking it (or so he/she thinks!), and ends up deciding that he/she actually loves it. This is how the present scenario is!

I don't say we shouldn't listen to English songs, or any other songs. Please continue to do so! But just preserve whatever is left of Indian music too! A balance has to be achieved between Indian and foreign music. In that way, no harm will be done!

Here's to preserving the sheer 'MAGIC' of Indian music!!

"Your positive action combined with positive thinking results in success."

-Shiv Khera

R. Lalithalakshmi

IT-A, III Year

Augmented Reality

W e all have heard of the term "Virtual Reality", commonly termed as VR. But, have you heard of "Augmented Reality (AR)"? It is quite common now a days.

Augmented Reality means the view of the physical world or real-world environment whose elements are "augmented" by Computer -generated or by other real world sensory input. The origin of the word Augmented is augment, which means add something. In AR, sound, graphics and touch feedback is added to the natural world. In Virtual Reality, an entire virtual environment is created where in Augmented Reality the real-world environment is used and virtual information are overlaid on top of it.

"Everyday brings new choices."

-Martha Beck

As both virtual and real worlds harmoniously coexist, users of augmented reality experience a new and improved world where virtual information is used to provide assistance in everyday activities. Augmented Reality enhances the real-world environment and provide enriched experience.

Initially, Augmented reality experiences were used in entertainment and game business, but now other business industries also interested in AR. For example, AR Helmet for construction workers which displays the information about the construction sites. The information of the real world of the user becomes more interactive by using advanced AR Technology.

Working

Augmented Reality works by overlaying the virtual or manipulated objects on the top of real world environment. This overlaying is done by a pair of goggles or glasses like Google Glass and other Head-Up Displays (HUD). Handheld devices employ small displays (Smartphones and Tablets). Components of AR devices are Sensors and Cameras, Projection, Processing and Reflection.

Sensors and Cameras are present outside the AR device and they scan the real world environment data and interaction. The device uses the information from them and overlays the virtual objects on the environment. A Projector is found in forward and outside-facing position and turns any surface into interactive environment. This uses real world data from Cameras and interact and project the Virtual objects. The

AR device is actually a mini-supercomputers packed into a wearable device. It contains CPU, RAM and other processing things. Advanced device like Microsoft's

HoloLens has a gyroscope and accelerometer. Mirrors are used in the AR device to assist the user's eye to view the Virtual Image. Some devices uses "Mirror with double glasses". One glass reflects the real world objects from Camera and another glass for viewing the Virtual Object.

Now, Augmented Reality is almost used in every field and this technology is improving everyday. Augmented Reality didn't fail to attract gaming companies either. Companies like Niantic and Lyeshot emerged as major Augmented Reality Game Creators. Niantic created the record-breaking game Pokemon Go. Augmented Reality is becoming a part of Mobile OS. Apple plans to introduce ARKit in iOS 11 for creating augmented reality experiences in iPhone and iPad.

A snap from Pokemon Go using
Augmented Reality

"The best preparation for tomorrow is doing your best today."

-H. Jackson Brown, Jr.

Mohammed Siddique

IT-A, III Year

Boredom

Who knew boredom could be so interesting? But it's not just being bored; it's what kind of boredom you are experiencing that has researchers intrigued. According to an article published in the journal "Motivation and Emotion", there are five types of boredom—which is one more than what the research team expected to identify. The boredom varieties range from a calm and pleasant experience to something more like depression. I found the following paper to be interesting and thought to be interesting to beat boredom at least by learning more about it.

The research team, led by Thomas Goetz of the University of Konstanz and the Thurgau University of Teacher Education in Konstanz, Germany, collected real-time data from university and high-school students' multiple times a day over a two-week period. They found that boredom is not only widespread—every student in the study experienced some level of boredom—but it's also more common than other emotions. "Boredom is the most often and most intense emotion experienced by students," wrote Goetz in an email, "much more intense than enjoyment, anxiety or anger. "Students reported if they were bored, answered questions about their positive or negative feelings, and rated how calm or fidgety they felt. From these reports the researchers identified five different types of boredom. They also found that tedium is personal. "People tend to experience specific types of boredom," said Goetz, which could mean that boredom is linked to your personality.

Indifferent boredom: This is a pleasant form of boredom, said Goetz, giving as an example a student who has had a really long day. "You go to a class, you are tired, and the class is boring. How

"What we think we become"

-Buddha

ever, boredom is experienced as rather relaxing and even positive. It is still boredom, but you like being bored." Another example? Zoning out on the couch in front of a marathon of trashy reality TV.

Calibrating boredom: Do you let your thoughts wander? If you are open to new ideas but don't feel any motivation to actually get up and do something, that's calibrating boredom. "It is like daydreaming," said Goetz, "but not actively searching for new actions."

Searching boredom: If you have ever responded to the question "why did you do it?" with "because I was bored," you have possibly experienced searching boredom. People who experience searching boredom are highly motivated to find a more interesting activity. This type of boredom can lead to innocuous behavior like texting a friend, or may prompt violent or risky actions, explained Goetz. "However, searching boredom can also result in highly creative and positive actions," he said. "Thus, it is a big chance—it leads to actions."

Reactant boredom: Trapped in a boring lecture or never-ending meeting? You may be experiencing reactant boredom. When you can't change your circumstances—get up and leave the classroom or conference room—your boredom may be accompanied by restlessness and aggression, along with the desire to do something else. "You are bored, you can't leave the situations, and this goes in line with feelings of aggression," said Goetz.

Apathetic boredom: This type of boredom was a surprise to the researchers. The other types were first identified in a 2006 study that Goetz participated in, but apathetic boredom—a very unpleasant form of boredom accompanied by a lack of motivation—emerged from this recent research. It seems to be

"Somewhere, something incredible is waiting to be known."

-Carl Sagan

similar to depression, and it may have more negative consequences than other types." Apathetic boredom can be assumed to be detrimental for personal psychological health," Goetz said. Are there more ways to be bored out there? "I don't think that there are further types of boredom," said Goetz, "but let's see."

Amidst all this, I still think reading for the semester exams would be the biggest killer of time in terms of the activity that makes us become eternal slaves of boredom.

Jayaram Hariharakrishnan

IT-A, III Year

"We can't help everyone, but everyone can help someone."

-Ronald Reagan

My First Glimpse

-A Short Story

I was happy, though a bit uncomfortable. My safe hideout had all the facilities I needed and I was cajoled and fed at perfect intervals. But, the only problem I had – My home was getting way too small and I could feel it's limitations. I did try to kick myself free, but in vain. So, somehow I adjusted because I could feel the tenderness and love emanating from the walls of my residence though I couldn't fathom how. This was when I began to understand that I was being hosted by an unimaginable entity which loved me. So, I tried my level best to comfort myself in spite of facing many physical difficulties.

But, at one instance, I realized with shock that I was not able to breathe. I was facing incredible congestion and to my rude shock, my house was also convulsing. I desperately tried to kick free. I suddenly felt a pull on my head and had an intuitive feeling that I was going to leave my first residence permanently.

And then, there was a blinding light, one that I had never seen in my lifetime. It was an unimaginably sickening atmosphere. The cold wind rushed past me making me numb. I couldn't tolerate it anymore. To my surprise, my mouth opened instinctively and I heard a shrill sound, which I realized later, was coming from me. This outburst was strangely comforting. I felt a cool breeze rush through my mouth and relax my body.

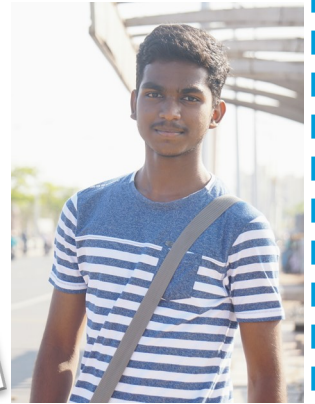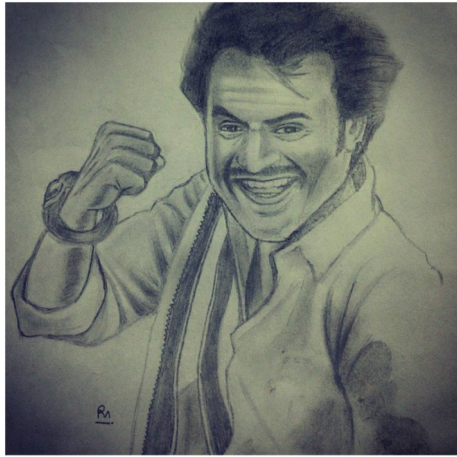*"Give lightness and the darkness will disappear of itself"*

-Desiderius Erasmus

It was then, that I was taken by something so warm and comforting that I couldn't help but open my eyes. My eyes saw someone with disheveled hair and a tired look, but what my heart saw was a beauty with tears in her eyes and a blinding smile. My heart was at ease while looking with her and I was innately satisfied. An overwhelming feeling of joy coursed through my veins.

My miniscule brain didn't know who she was but my heart recognized her instantly. She was my creator, my preserver and would be someone who will be my caretaker at all times. And, I knew without doubt, that she was the one who provided me my first residence - She was my MOTHER.

"In three words I can sum up everything I've learned about life: it goes on."

- Robert Frost

Sowmya K
I Year

Pencil Sketches

Reyan Mallaya

IT-B, II Year

M. Pranathy
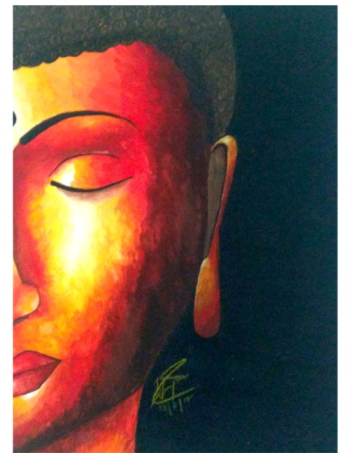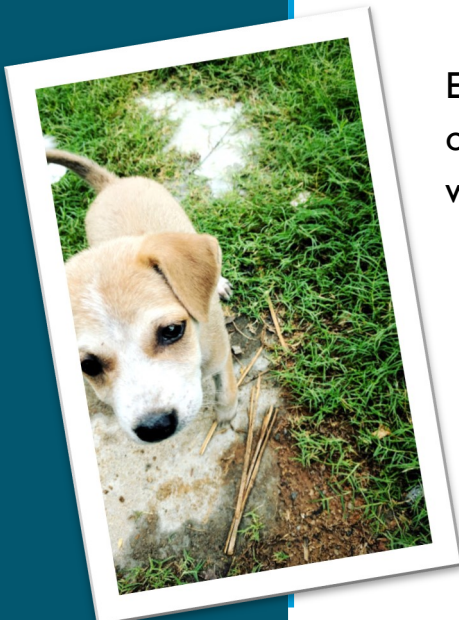
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Pencil Sketches

Keertthana K N
IT-A, III Year

Sanjana Kriti
I Year

Photography Corner

Even the tiniest poodle or Chihuahua is still a wolf at heart.
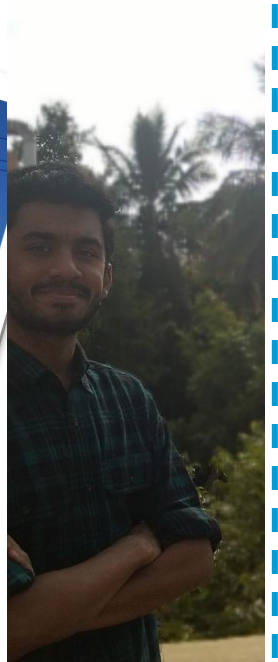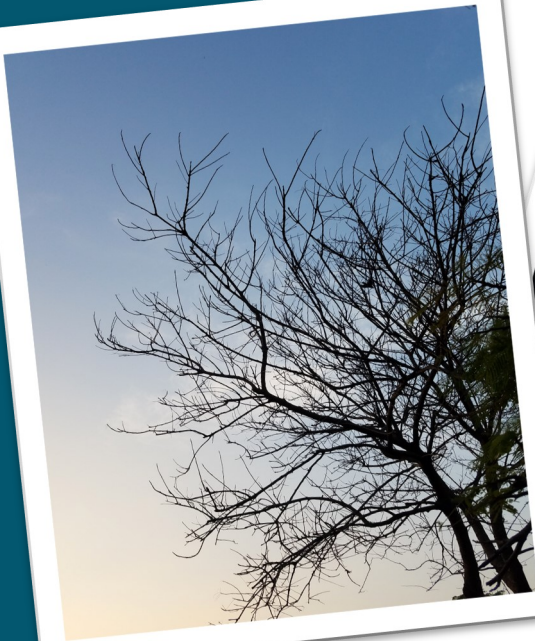
Shruthi S
IT-B, III Year

Spin the wheel of life

Photography Corner

S Balakrishnan IT-B, III Year

S Raghul IT-B, III Year

Photography Corner

Dilipan Murugavelu

IT-A, III Year

Udaya Prakash

IT-B, II Year

Photography Corner

Be fascinated about colors. And the visual treat is when they come in the form of rainbow!

Swedha A

IT-B, III Year

Be the light in other's lives.

R. Lalithalakshmi

IT-A, III Year

From the editors

On behalf of our team, we wanted to take this moment to say **THANK YOU**.

We are amazed by seeing the amount of innovation, ideas, and service that are put in by our students to create impact from the local to global level. *We are inspired.* Every time we read and edit a story, we're empowered and comforted by the fact that there are people out there fulfilling their own missions. By doing what you do, we get to fulfill our mission by delivering the message that we all have the power to make a difference.

"If you are calm about your ambitions, you become confident of achieving what you set out to do."

-Shiv Nadar

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