



XAVIER INSTITUTE OF ENGINEERING

CONNEXION

2020

"Breakthrough in Technology"

THE TEAM



PREFACE

With great pleasure we present to you the 15th edition of XIE's annual magazine 'ConneXIEon'. A combination of sorts, and with something for everyone, we, the Editorial Team, have laid our best foot forward in creating this awe-inspiring magazine.

As in past years, the magazine has featured some of the most uprising innovative technologies. This year, we themed the magazine, "BREAKTHROUGH IN TECHNOLOGY", capturing how emerging technologies demonstrate the rapid pace of human innovation and offer a glimpse into what a sustainable, inclusive future will look like. The prime reason to keep this as our theme is the idea that technology plays a critical role in finding solutions to all the challenges our world faces today. The technical articles featured in this magazine highlight some of the technology that broke expectations around the world.

Also, who likes restrictions? Exactly, no one and thus we had given our authors the liberty to choose their own topics so as to bring out the best in them. The response received was overwhelming and the best have secured a place in this magazine.

Culminating the marvelous time we had, we would like to express immense gratitude towards our Director, Fr. (Dr.) John Rose S.J., Principal, Dr. Y.D. Venkatesh, Administrator Fr. Fabian Barreto, S.J. and Ombudsman, Fr. Errol D'Lima, S.J. We would also extend our thanks to the Head of the Departments, the teaching faculty, the staff members and everyone at XIE for their support in every means possible.

Finally, we would like to convey that the views and opinions expressed in this magazine belong solely to the authors and do not, in any way, represent the stand of the college or the editorial team.

Happy Reading!

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The Editorial Team

MESSAGE FROM DIRECTOR



Dear friends of XIE,

The Society of Jesus I belong to, and which runs XIE, after analyzing global issues, has recently proposed four preferences to all its institutions. For the next 10 years these preferences are to guide all Jesuits, members of this Society, when planning and undertaking anything, so that their spirits and minds are updated to meet the requirements of the world as it is today. Traditionally they have stood for truth, quality, selfless service, and the common good, but all these are to be re-gearred to meet the challenges of fast developing changes in all departments of life. But even before these preferences were specified, XIE has always been motivated to bring both the divine and positive human dimensions into every decision made. Our top preference is YOU, the YOUTH. "You" are both the present and the future. "You" are tree-planting on our campus and other places, coaching in the Ashram Schools in Nagazari and Manor, and beach-cleaning in Versova, show that "you" care for the environment and love the children in rural areas who often feel excluded. Such activities by XIE students have been intensive from the very beginning.

Though XIE is only 14 years old, the impact it has made on society and on the world of our engineering studies is boundless and priceless. In 2013, it was rated the top fifth in the city, and, in 2015, as the top third. Yet already in 2018, according to the Times Engineering Survey of high perceptual scores in engineering colleges that included IITs and NITs, XIE ranked among the top 30 in the country. The Higher Education Review rated XIE among the top 20 promising institutes in Maharashtra. In 2019, the ABP News Network conferred on it the Education Leadership Award because of its setting up of the Gait Lab. Just recently it got the award for "Engineering Education and Innovation" given by Beginup Research Intelligence Private Ltd. ONP Solar has given it its Green Mission Award for switching to solar power. These prizes and rewards are presented in recognition of what we stand for, and of what we do for the threatened environment and for people that are vulnerable. Our topmost preference is to perfect the skills of engineering students and deepen their devotion for study that leads to nishkama karma.

The best divine gift that we've received is the Gait Lab. We could set it up only through the help of the Jesuit Marquette University in Wisconsin (USA), and it is still the first and the only such lab in Mumbai, and also the only engineering college in India to have that lab which does the gait analysis of children affected by cerebral palsy and club foot.

Of even greater pride is that XIE has adopted Nagzari village located in a remote area of Palghar District. Our students had a great time in teaching the boys and girls of the Loyola Ashram School, and in doing social and agricultural work with the farmers in the area. For the first time XIE will have a University Vice Chancellor to distribute the Convocation certificates to the graduates, the ones who passed out in 2019. He is Fr Dr Felix Raj, SJ of Xavier University, Kolkata, and he will also launch this year's CONNEXIEON Magazine. We will give him a big welcome.

Ever ready to serve at all times,

Fr. Dr. John Rose, SJ.
Director

MESSAGE FROM THE PRINCIPAL



Being established in the year 2005, Xavier Institute of Engineering runs 4 year degree courses in Bachelor of Engineering (B.E.) in the three streams, namely, Computer Engineering, Electronics and Telecommunication Engineering and Information Technology. All the three courses are recognized by AICTE (All India Council for Technical Education) and approved by the University of Mumbai. The B.E. degree, after completing their courses with a project satisfactorily, is conferred by the University of Mumbai.

Moreover, the institute has been successfully accredited by NAAC (The National Assessment and Accreditation Council) which is a move to assess and thereafter ensure the quality of education offered and to keep the institute up-to-date in terms of academic and administrative performance resulting into brightening of students' prospects in their all-round development.

The vision statement of the institute is "to nurture the Joy of Excellence in a world of high technology", and the Mission statement is "to strive to match global standards in Technical Education by interaction with industry, continuous staff training and development of quality of life."

Each issue of our magazine "ConneXIEon" is a milestone that marks the growth, which unfolds students' imagination and gives life to their thoughts and aspirations. It unleashes on a wide spectrum of students' creative skills ranging from writing to editing and designing the magazine. It also envisions the achievements of our students in various fields of their study. I congratulate the entire editorial team for their hard work and dedication in bringing this magazine, which is like achieving a dream successfully.

The creative process is at the heart of innovation and often the words are used interchangeably. One cannot think in a creative manner unless one has the knowledge with which to think with creative manner. It is a balance between knowing and acquiring. For creative thinking to deepen and extend learning, rather than be an enjoyable but superficial activity, it must be grounded in understanding of the knowledge gained at the institute.

Innovation and creativity are fundamental to all academic disciplines and educational activities. To build up and inculcate these creative habits and to stay apprised with the current requirements and the demands of industry, the institute is conducting workshops on various subjects like IOT, Machine Learning, spoken tutorials, Python, Robotics, Digital Image Processing and Artificial Intelligence to name a few.

To invoke the creative genius, to inculcate habits leading to productivity, to develop decision-making and to concurrently work within a team, the students have been conducting and managing the entire cultural fest, Spandan, the technical fest, Transmission, and the sports fest, Sparx, on their own. The students have also participated in intercollegiate competitions and have won prizes for themselves and, therefore, for the institute. The institute beams with success and grandeur because of its students and their contributions.

I wish you all a great success in all your endeavours.

Dr. Y D Venkatesh
Principal



TECHNOLOGY IN THE SERVICE OF PEOPLE

Technology is instrumental in extending the ability of human persons to achieve difficult but worthwhile goals. This happens because persons have a sense of ethics that leads them to recognize the achievement of goals as fulfilling human potential. Unaided by technology, these goals would be unattainable. At the same time, the realization of those goals brings a sense of satisfaction and also stimulates persons to look for new goals to be reached.

The persons who benefit from the attainment of such goals must not be limited to those who originally made efforts—with the help of technology—to achieve them. The benefits from attaining such goals should be shared with society at large. Not only will society attain its God-given finality but there will also be a sense of unity where it will be the concern for one individual to look to the well-being of the other.

When technology is put to this type of service, it succeeds in being humanizing. The inventions of the past in the field of medicine, industry and science in general have seen technology being cast in avatars that have contributed to building a responsible and reliable human family. I look forward to see technology play a constructive role in human efforts to realize greater achievements but always at the service of humankind.

**Late Fr. Errol D'Lima, SJ.
Ombudsman**

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REPORTS

FIRST YEAR

SR.NO	NAME	GPA
1	GHARAT HIMANSHU MAHENDRA HEMLATA	9.85
1	GUPTA REETIK BALGOVIND RADHIKA	9.85
2	SHARMA KAVITA TAPESHWAR KEWLA	9.78
3	PATIL ABHIRUCHI ABHINANDAN ARCHA	9.63

SECOND YEAR COMPUTER SCIENCE

SR.NO	NAME	GPA
1	SAHOO ARCHANA SURENDRAKUMAR	9.96
2	DMELLO CANDICE JUDE PERINE	9.7
2	FERNANDES VAILANTINA LAWRENCE SUNITA	9.7
3	SINGH VARUN SURESH ANITA	9.67

I.T

SR.NO	NAME	GPA
1	NAWAR SMIT SUNIL SMITA	9.54
1	KARKERA SHRISHTI LAKSHMESH VIJAYLAKSHI	9.54
2	KALWAR ACHAL VIJAY SUNITA	9.38
3	AHMED AFZAL SALEEM NOORJAHAN	9.35

EXTC

SR.NO	NAME	GPA
1	JAGTAP VEDANT RADHAKRISHNA	9.52
2	LOBO PREETAM PHILIP	9.12
3	SINGH AYUSHI RAKESH USHA	9.04

THIRD YEAR COMPUTER SCIENCE

SR.NO	NAME	GPA
1	NAIK HEMENDRA MAHENDRA SULABHA	10
1	VAITY SHUBHAM ASHAY KALPANA	10
2	KHAN ABUBAKAR SALIM RIZWANA	9.54
3	DSOUZA PRIM ROCHELLE VINCENT	9.23
3	SHETTY VISHAL SHANTHARAM LEELA	9.23

I.T

SR.NO	NAME	GPA
1	PAWAR SAYALI SANTOSH SANDHYA	10
2	ANNALDAS DIVYA VISHWANATH NILIMA	9.85
2	JADHAV KAUSHIK ARVIND ANAGHA	9.85
3	JATHAR JANHAVI GIRISH SWATI	9.69
3	SHINDE SIDDHESH UDESH UJJWALA	9.69
3	TAMBE TEJASWINI GAJANAN VIMAL	9.69

EXTC

SR.NO	NAME	GPA
1	PARAB MANALI SANDEEP ANJALI	9.84
2	GIRKAR AMEY VASANT NAMRATA	9.36
3	GUPTA KISHAN BRIJBIHARI INDRAVATIDEVI	9.04

FOURTH YEAR COMPUTER SCIENCE

SR.NO	NAME	GPA
1	RODRIGUES JASON STEPHEN	9.25
2	NAIR SHREYA PRAKASH	9.22
3	IYER DAMINI VARADHARAJAN	8.87

I.T

SR.NO	NAME	GPA
1	TORASKAR SIDDESH SHRIHARI	9.06
2	AIN MAYUR LAXMILAL	8.64
3	AREKAR PUSHKARAJ PRASAD	8.54

EXTC

SR.NO	NAME	GPA
1	TEMBE SHREYA ASHUTOSH CHITRA	9.11
2	YADAV SUSHILKUMAR RAJBAHADUR	9.07
3	THORAT PRIYA GOVIND SUJATA	8.86

Interviews

SIDDHESH BORKAR - GENERAL SECRETARY
BHAKTI SHARMA - ASST. GENERAL SECRETARY

1. What are the responsibilities of an AGS?

GS- The GS acts as a link between the students and the teachers. It is the responsibility of the GS to plan out various events, figure out the shortcomings of various events, solving disputes and working as a team with the entire council to maintain a good relation with the students.

AGS- The AGS assists the GS in discharge of its duties and in the absence of GS shall perform all its functions and duties. The role of AGS is similar to that of a GS.

2. Did you face any challenges while working on events/projects?

GS - The fundamental thing a GS should have is a good rapport with the students as well as the teachers. The person should be a character to which any person or a student can express their problems without any hesitation. The GS basically should look after that every event is going according to the plan and be calm when things don't go according to your plan. The GS should always be available to hear anyone out patiently before making a decision and should keep tabs on all the things happening around.

AGS - People who have never been in any student body think it's really easy to be in a council. This may be true if your plan is to just cruise along the year. However, if you want to get any sort of change or make an impact, you have to realize that nothing is easy! Credit is never given unless something goes wrong! This applies to the whole council, and more so to the GS and AGS. When something goes right, irrespective of the actual contributors, the achievement is for all, but if something goes wrong, it's directly blamed on the Council. There are always misunderstandings between people working together in a team but we have overcome this problem and will always strive to work together as a team.

3. Is there anything you would like to tell the students of XIE?

GS - Firstly, I would like to encourage all the students, especially juniors to be more involved in extra-curricular activities and also motivate them to apply for a council position. We all know that studies are important and they are but being a part of these activities teaches you things that are really useful. Being in the council for 2 years has been a life changing experience for me and has taught me a lot and I wish that many students will be enthusiastic in taking part.

Lastly I would like to thank the administration for finding me capable enough of giving me this wonderful opportunity.

AGS - I would like to encourage the students to take part in all the activities that happen not only in our college but in other colleges as well. Also, they should manage their academics and take part in extra-curricular activities. I would like to encourage them to be a part of student council or the management committee because in the process, you end up having an epic time where you'll make friends for life, you'll learn to take responsibility for your actions, you'll learn the value of money, you'll live life on the edge, you'll mess around in everything ranging from politics to administration to plain out marofying. You'll see the best in people; you'll see the worst in people. Some people will trust you with their confidence, others may not. Respect will have to be earned, but once it's earned, it stays! You'll laugh, you'll cry, you'll hurl insults, you'll beg, you'll scream, and most importantly, you'll live!



Interviews

ABHISHEK SHARMA- TECHNICAL SECRETARY
PARTH GHUMARE- ASST. TECHNICAL SECRETARY

1.How was your journey from a regular student to becoming the Technical Secretary/ Assistant Technical Secretary of XIE? What were your roles that made this possible?

Looking at the previous year's council, I knew how dedicated you had to be to make any event a success. I had aspired to become a council member right from the first year, but I did get second thoughts sometimes, knowing that responsibilities can be stressful. But I'll definitely say I enjoyed the journey! I had been a part of many events/committees in my FE, and I realized that working for college fests was actually fun. So in SE, I tried my luck for the position of ATS; so as to give even more of my time to take technical events in our college a step ahead. I guess being a CR in FE gave me some experience to be able to handle a post requiring leadership skills.



2.How did you fulfill your goal of making Transmission bigger and better this year?

Transmission consists of technical events happening in our college throughout the year. And very few of the events which are not a part of Spandan get participants from other colleges. This year we conducted Xavier Coding Marathon which had participants from more than 25 colleges. Alongside that, I organized a Junior Coding & Aptitude Test for FE students. Furthermore, after technical events in Spandan, we plan on hosting a hackathon in our college too. I guess Transmission hold an important place as our college focuses more on the technical branches of engineering.

3.Any specific moment from your journey that you would like to share with us?

It was a couple days after we released the registration forms for Xavier Coding Marathon. The number of registrations we were getting were skyrocketing. And we were feeling both happy and a bit nervous at the same time. Happy for we got almost double the registrations we had expected, and nervous for if we would be able to manage such a huge crowd. But with the support of an excellent team working for the event, everything went as smooth as butter.

Interviews

VENKATESH PRABHU- CULTURAL SECRETARY
LINCY LOIS BRIAN - ASST. CULTURAL SECRETARY



Tell us about your journey to becoming the Cultural Secretary/ Assistant Cultural Secretary of XIE?

CS - My journey from being a First-Year student volunteer to the Cultural Secretary of Xavier Institute of Engineering has been quite interesting. When I saw my seniors put in all those efforts to make their fest a hit, it truly inspired and moved me. It was never about the authority; it was always about the fun and experience that we will gain from coming together and building something much bigger than us. Second year completely changed my perspective as I truly experienced the struggles and pleasures of working hard for a cause. I thank all my seniors for being very supportive and motivating me to achieve what I have today.

ACS - I personally not only like participating in most of the cultural activities like drama, singing, dancing, etc but also like volunteering events & organizing them. Standing up for this post has made me more confident, responsible & has helped me grow better as a person.

What were your ideas for Spandan 2020 to be bigger and better?

The bars were already set pretty high when we took the oath as the new Students' Council of XIE. However, to set the bars even higher, my team and I had to make every event a hit. This was only possible because of a diligent work force and the ever-joyous staff and students of XIE.

How do you think the cultural scenario at XIE has changed for 2019-2020?

The cultural scenario of XIE has been evergreen. This time, there's a new spirit of participation which has breathed more life into the already stressful life of the students and staff.

For the future CS/ ACS what qualities does he/she need to have?

CS - The future CS should be honest towards our own self as well as others. Be humble and respect the hard-work of every individual. Qualities such as punctuality and empathy are of the most importance. More than anything, have fun when you work.

ACS - The most important role of an ACS is to assist & be a support system to CS. Moreover one has to have good leadership qualities, be an approachable person to whom one can bring forth even the tiniest problem, motivate everyone to participate in different cultural activities & have a good rapport with students & teachers.

Interviews

VEDANT CHAVAN - SPORTS SECRETARY
ADITI PATHARE - ASST. SPORTS SECRETARY

What is the first thing that came into your mind when you were selected as SS/ASS?

SS - was indeed very excited and happy that I was selected as the Sports Secretary of my institute. Everyone, including my friends and family, was extremely happy after getting to know the news of me being the Sports Secretary this year. It is such a big responsibility and all I have in my mind is to empower my college in the sports domain.

ASS - I was indeed thrilled to be selected for this post. I was looking forward to create a number of sports

activities for our college, during the sport event STARX, especially for our staff members. So far, it has been a successful endeavour with a good feedback.

What do you have to speak on Sparks 2k20 phase 1?

Sparx phase 1 was a great success. All the events were executed according to the schedule without any casualties. And majority of the credits for making Sparx Phase 1 a big success goes to the Admin team. Without their help Sparx phase 1 wouldn't have been possible. They have worked day in and day out to make sure all their respective events go smoothly.

What challenges did you face as SS/ASS? How did you overcome it?

SS - It is said that if you don't face challenges while carrying out a task then you are probably doing it wrong. Challenges are bound to come in your way but the thing that matters is how you tackle them and go ahead. For me the biggest challenge that I faced was the weather. Majority of the events in Sparx phase 1 were outdoor events. And due to excessive rains and unfavorable weather conditions this year many of them couldn't be executed according to the schedule. But then even after all these difficulties my team really helped me to catch up with the lagging events and complete them before the end of Phase 1.

ASS - As the ASS, when I had in my mind to start different sports teams in our college, I faced quite a few challenges while managing it. It is my luck to get the support from my seniors and when necessity came I also got a good support from my juniors. It is a pleasure to tell you that I have successfully started XGFT (Xavier Girls' Football Team) with taking help and guidance from the seniors. And now after getting an experience, I am trying to start Badminton and Basketball Teams for our college.





EDITOR - IN - CHIEF



TECHNICAL EDITORS

ENGLISH EDITORS



REPORTERS

MARATHI EDITOR



HINDI EDITOR

SKETCHES

PHOTOGRAPHERS



GRAPHIC DESIGNERS

EVENT REPORT “E CELL TALKS”

In the first edition of talks @ E cell, Mr. Kushal Bhagia, entrepreneur and venture capitalist, talked about entrepreneurship, early stage fundraising and the world of venture capital. He also gave valuable advice and answered questions from the audience. More than 100 students from different departments attended this session and deemed the session as productive and helpful in nature.

Subhajit Sarkar, Sr. Manager at Capgemini, was invited as a guest speaker in the second edition of E Cell Talks in XIE. He shared his experience in the work field with the students, answered several doubts raised by the students on topics related to Artificial Intelligence. He spoke about the recent breakthroughs and latest research in AI, intersection of business and AI and industrial applications and adoption in the field.



EVENT REPORT XIE OUTREACH PROGRAM

A Summer Camp was organised for students of Loyola Ashram High School, Ashagad, Dahanu from June 4-8, 2019. The students, a were hosted by XIE during their four days of their stay in the Institute. Sessions on English, Mathematics, Science and Computer were conducted the teachers as well as student volunteers, during three days of the program. Activities such as enlightened the students on Mindset were demonstrated by Fr. Fabian Baretto; the volunteers engaged the students in sing-along sessions and outdoor sports. On the last day, a Mumbai Darshan trip was arranged on the last day of the summer camp.



EVENT REPORT MANOR OUTREACH

21 students from SE-IT volunteered to teach the children of Shanti Seva Ashram from 29th November to 1st December. The team was divided with girls conducting sessions for Jyoti Niwas students from Std 1st to 9th and boys took the sessions for Ashram boys from Std 2nd to 9th.

Sessions included subjects like Maths, Computer and English. On each of the 3 days, an interactive session which was conducted after dinner filled with joy and storytelling. The program concluded with a short closing ceremony. The children thanked each volunteers and shared their 3 day outreach experience.



CSX EVENT “WORKSHOP ON ETHICAL HACKING”

This workshop was conducted for all students, aiming at introducing students to the basics of ethical hacking. Students were asked to work on Linux OS for this workshop. A wide range of topics were covered by the speakers during the workshop and the students gave positive feedbacks.



CSX EVENT “WORKSHOP ON COMPUTER ASSEMBLY”

This workshop was conducted for FEs and SEs, aiming at introducing students to the structural basics and functionality of a computer system. Students were allowed to examine the CPU samples by themselves and doubts were solved simultaneously. Towards the end, the speakers encouraged the students learn more about the topics discussed.



CSX EVENT “WORKSHOP ON JAVA”

This workshop was conducted for SEs and TEs, aiming at introducing students to the conceptual basics of Java and the various class libraries, methods and so on. Along with Java JDK, IntelliJ and Visual Studio Code was shared amongst the students for the workshop. Towards the end, the speakers mentioned about different websites and blogs where students can learn more about java programming. Different environments were also explained to students such as Netbeans and Spyder where one could implement codes.



CSX EVENT “WORKSHOP ON WEB DEVELOPMENT”

This workshop was conducted for FEs, SEs and TEs, aiming at introducing students to the basics of web application and development.

XAMPP and Sublime Text software was shared amongst the students for this workshop. The students were asked to make a website based on “Library Management” and create a database to store all information regarding it.



EVENT REPORT “XAVIERS CODING MARATHON”

Coding Marathon is a competition where contestants compete to solve a given set of coding based questions in the least time. The winner was awarded with a prize of 15,000 Rs, 2nd prize - 10,000Rs and 3rd prize - 8,000Rs. A large crowd of 214 participants including students from over 26 colleges contested making this the biggest competition ever held in our college. A Junior Coding Marathon was organized as well for the students of First Year where total participants was 170, and the winners were awarded 5,000Rs, 2,500Rs, and 1,000Rs respectively.



EVENT REPORT “JOY OF COMPUTING”

Joy Of Computing was hosted by the EXTC Department of XIE. Students from different were invited to XIE and they were briefed on the different instruments and basic tools. The main aim of the event was to enlighten young minds on the importance of IoT in the Indian Software Industry and brief them on topics like Big Data and Cloud Computing.



CSX EVENT “ANDROID WORKSHOP”

This workshop was conducted for TEs and BEs of COMPS and IT department, aiming at introducing students to the basics of android application and development. Android Studios software was shared amongst the students for this workshop. By the end of the workshop, students were able to create an android application on their own. The speakers covered a wide range of topics that included installation of android studios, updating them, etc. Overall it was a successful event with more than 30 people from the TE's and BE's attending it.



Xavier Institute of Engineering
COMPUTER SOCIETY OF XAVIERITES
ACADEMIC YEAR 2019-20

ANDROID WORKSHOP

ON
31ST AUGUST AND
1ST SEPTEMBER

ENTRY FEES:
CSX MEMBERS-RS 30
NON CSX MEMBERS-RS50

DIPESH PATIL-8879463767
YESHWIN ANIL- 9167542675
SHIVANG MEDHKAR- 9004679633



android



NSS REPORT “BEACH CLEAN UP”

The visit to the beach gave members an opportunity to preserve environment for a better world tomorrow and also gained knowledge to dispose the waste in right way. Their visit to Versova beach was immensely beneficial. They learned that it was an excellent opportunity to experience an environment that prioritizes green world for better future, as this was quite different from our focus at cities. More importantly it contributes to cleanliness of the cities and beaches, encourages young people to abide by the program Swacch Bharat Abhiyaan and it also was an effective way to step up and preserve the environment at a local level.



NSS REPORT “BLOOD DONATION”

It was conducted by St. George’s Hospital, Regional Blood Bank, Fort, Mumbai 400001. 22 NSS volunteers volunteered for this camp. The camp was conducted in the following way. First the donors registered on the registration desk, after which they filled a consent form that had questions which determined whether or not the donors could donate. After that their weights were checked. It was mandatory that the weight be above 50 kgs. Then they were examined by the doctor for blood pressure and haemoglobin. The donors having sufficient blood pressure and haemoglobin were then allowed to donate. After they completed giving 350ml of blood they were asked to rest and were provided with tea and light snacks. Then they had to collect their respective certificate and the blood donor’s card. 60 units of blood successfully collected.



NSS REPORT “GENDER SENSITIZATION”

A group of 5 students from NSS-XIE were present for the Gender Sensitization Activity entitled as “Mumbai Youth change the narrative on Inequality” and Screening of 66th National Award Winning Movie on the theme titled as “SON RISE”.

The short film SON RISE was a documentary on the gender inequalities still prevailing in the Haryana state. It highlighted the need for putting an end to the female feticides.

The session also gave the volunteers awareness about the ideal behaviour of a person in society and explained what all actions are considered as sexual harassment and are punishable under the law.

The volunteers took back with them a lot of information and will share it in their college and friends.



NSS REPORT “ORGAN DONATION DRIVE”

J.J. Hospital , Mumbai had organized an Awareness Rally to encourage Organ Donation among the masses on the 5th SEPTEMBER . They have invited the NSS units of Colleges under the University of Mumbai to volunteer for this Mega-event . This University/ District Level Event was graced by the presence of HEALTH MINISTER, DIRECTORATE GENERAL OF THE FIRE BRIGADE, MUMBAI POLICE, DIPLOMATS FROM THE ISRAEL CONSULATE AND MANY MORE CELEBRITIES. Organ Donation is a noble cause to save lives after death of a person. To support this cause 27 NSS members of Xavier’s Institute of Engineering took part in this rally. We gathered near Air India Building, Nariman Point. The dress code was N.S.S white t-shirt.



NSS REPORT “RAILWAY PAINTING”

During SWACHHTA PAKHWARRA WEEK organized by Indian Railway, the volunteers of NSS-XIE organised the Railway Painting at Mahim Railway Station on 2nd October, 2019.

10 volunteers participated in the event. 3 walls were painted with meaningful drawings on the theme of cleanliness, integrity, heritage of India and wisdom.

Each painting stood as a symbol of message for the society highlighting the importance of cleanliness in our society. Today as our society is moving ahead polluting our nature, it is necessary to spread awareness about cleanliness, its importance in our healthy lives, in a beautiful environment. A clean environment is healthy environment, a healthy environment is necessary for the better future of the society.



NSS REPORT “TREE PLANTATION”

As per the circular of Government of Maharashtra of planting of 2 crore trees, reflecting on that XIE organized Tree Plantation program. At XIE the 34 NSS volunteers planted 10 trees which were Mango, Kokam, Peru etc. The second tree plantation drive took place at P.P. Gagangiri Maharaj Ashram, Manori. The main reason of tree plantation for the 47 NSS members of Xavier Institute of Engineering was to learn various methods not only to plant saplings but also know how to make use of planting tools and proceeding for planting a sapling. We successfully planted 1000 saplings and 50 trees some of them being Badam, Wad, Pipal, Neem, Phanas, Ashoka, Suru, Bel, Jamun, Peru, Mango etc.



SPARX REPORT

“Everything in this world is temporary, impermanent, what stays with you until the very end is your healthy body and your love for sports” We have always heard this from many athletes and sports figures. We people too, have our own favourite soccer/football, basketball and cricket team. We also idolize some prominent sports figure a lot. At Xavier’s Institute Of Engineering not only to the students come to learn and nurture, but also to indulge in extracurricular activities that provides them with a much needed break from academics. Spandan, on of such extracurricular events brings the students of the entire college together where they indulge and participate in indoor as well as outdoor sports activities. It helps students stay active and refreshed in course of their engineering.



Reports



English



LOOK BEFORE YOU LEAP

*Always look before you leap,
Be aware of every step you keep.
If you fail there's no need to weep,
As what you sow, so shall you reap.*



*Every cloud has a silver lining,
All you need is to find the shining.
Fight your fears with your face smiling,
Show all your talents-There's no hiding!*

*Perseverance is the key to success,
Hard work and determination is victory's address
There's no use to regret after making all the mess,
You build take path you want to access.*

*Where there's a will, there's a way,
After every night there's always a day.
You won't always lose but sometimes may,
Yes I surely can - Just say!*

*Wake up! Get up from your sleep,
Always look before you leap.*



*-Tanay Modi
SE IT*

TUNING

Music is like a guide
A catalyst, be exact
That tunes you to the world
And keeps you in contact

You never need to fake it
Or never to inact
It's the warmth in your heart
Whom others attract

You may loose your way
Or mind distract
But the soul which you hold
Will always be on track

It's the sweet memories that you keep
And the good wish for the go
The ending maybe be hidden
But the journey you will know

- Arnold



A NEW START

*Why do we lose ourselves
In the miseries of the past,
And give into emotions
That never last.*

*Oh! Don't look back
deep into your mind;
Blinding memories
are all you'll find .*

*Life is a story ,
With its own twists and bends
For some it's glory,
For some it's the end.*

*So don't be broken,
Just open up your heart.
The pain remains unspoken,
What's spoken about is the
new start.*

*Drunk on feelings
Of love, joy and sorrow;
Which left us bleeding,
Promising no tomorrow.*

*We all falter
along the road,
It's time we pause
and discard the load.*

*You got a chance
to change it all
Dont let the agony
make you feel small!*



- Sean Pereira

FOREVER

*It was always like the morning bliss,
And at times the midnight gloom.
It seemed like the casa Blanca,
But also had the morning glory bloom.*

*Feels like the soothing whiff,
Oh the peace it gives.
Serene as it seems,
Endowed in all it lives.*

*For ages fervent to growth,
Emerging to glory and having a worth.
Clutched to the good things present,
As time approaches for the final birth.*

*Can't breath you in easy,
Give me some time and I'll see....
I observe the blazing sunset in your eyes,
Ensuring the beauty to be!*

*Couldnt ask for More,
Splendid as it can get.
Can't help the feeling of,
Your fragrance stuck in my head.*

forever

*Struggle is what happened all the while,
I promised to myself, I will make you mine.
Some prove honesty, I don't need it from you,
Cause that is one thing I see it right in you.*

*Whether we stay or whether we not,
Memories will be mortal together.
Everytime I have a feeling of someone better,
Should I know the reflection in the mirror
could be my forever.....*



-Justin Dsouza(BE COMPS)

Don't let it go

*Do not let it turn its own,
Make it in your way,
As it must be shown.*

*Do not wait for the day to come,
Complete it all,
there should be left none.*

*Push all ups and downs,
That makes your mind bounce;
But don't let it go,
Because it really counts...*

*Every step you take
Must be to build your strength,
But not to break!*

*Do not let Yourself lose hope,
Just believe in your own self;
The moment you believe in you,
Success will walk to you, itself*

*Chase your dreams,
The challenges you mount;
But do not let it go,
Because it is meant to count.*

*Stella Nadar
TE COMPS*



Perspective

*What's so different between you
and me?*

All I know is what I see,

*In your religion you may believe that the people are the
same and*

cloned,

But what I see is flesh and bones.

*Your heart beats and so does
mine,*

*We are protagonist of our own story so why not make a
change*

this time,

*Because all we are supposed to
do is share hope and care,*

Instead of hate and despair.

So let's make a vow in our hearts

Forever

That our children would not be close minded whatsoever,

*You may think that I am a dreamer with some insane
dreams,*

*But it is a possibility in the near
future.*

*-Ajit George
SE EXTC*



Life's Lesson

*Be it once, be it twice,
I know I need some advice.*

*Be it once, be it twice,
I know I am cold as ice.*

*I need to change,
I know it's strange.
I need to be different,
Else my life is just irrelevant,*

*Overcoming my fears,
Shedding no tears,
Is a task unfeasible?
But I need to be invisible.*

*The world is a cruel place,
It's a rat race.*

*I need to keep up my pace,
Tie my laces.*

*Move forward with no disgrace,
Praying for God's grace,
I don't want it to be a wild goose chase,
Until Victory is what I Embrace.*



*-Joshua Sequeira (SE
COMPs)*

हिन्दी



माँ



हंसती, गाती, खिलखिलाती,
न जाने कितने आंसू छुपाती है माँ ।

प्यार से सबके लिए खाना बनाती,
न जाने कितने छाले छुपाती है माँ ।

हमारे लिए पुरी दुनिया से लड़ जाती,
और उसकी भनक भी लगने नहीं देती है माँ ।

हमें जितना चाहे डांटती और मारती,
पर कोई गंदी नजर भी डाले तो उनकी आँखें नोचने
के लिए एक पल भी ना सोचे ये माँ ।

घर लौटके सारा गुस्सा ही क्यों ना उनपे उतार दे,
चुपचाप सारी बातें सुन लेती है माँ ।

बच्चों के लिए अपना सब न्योछावर कर के,
कभी उसका हिसाब न रखनेवाली होती है माँ ।

बस, यह बात याद रखना -
एक कर्ज जो हर दम सवार रहता है,
वो माँ का प्यार सब पर उधार रहता है ।



- माऊली पवार
SE-EXTC

हवाएं

हर पल इठलाकर किसी लहर जैसी बहती है
मेरे दिल के सागर में कोई चहल करती हैं।
धीरे-धीरे मुझे अतीत के सायों से आजाद कर रही हैं।
ना जाने यह हवाएं मुझसे क्या कह रही हैं?

अक्सर किसी सुनसान जगह पर उनका गुनगुना
बेचैनियों के वक्त उनका मुझे हल्के से छू जाना।
इसी लम्हे में ठहरने का हमें पैगाम दे रही हैं।
ना जाने यह हवाएं मुझसे क्या कह रही हैं?

फूलों से राबता कर हमें सुहानी महक देती हैं।
पूरी कुदरत में यह सांसे बन जिंदगी देती हैं।
बैशर्त इस जहां पर अपनी मोहब्बत बरसा रही हैं।
ना जाने यह हवाएं मुझसे क्या कह रही हैं?

बारिशों में घुल मिल कर खुशहाली बरसाती
पंछियों को उड़ान भरने की आरजू दिलाती।
मदहोश फिजाओं में मुझे कहीं दूर ले जा रही हैं।
ना जाने यह हवाएं मुझसे क्या कह रही हैं?

कभी फंफू बनकर जख्मों के लिए मरहम बन जाती हैं।
तो कभी तूफान बनकर चारों ओर दहशत फैलाती हैं।
यह हरकत अजीब फितरत बयां कर रही हैं।
ना जाने यह हवाएं मुझसे क्या कह रही हैं?

गुमसुम घड़ी में जब उनका मुसलसल झोंका आता
किसी नादान बच्चे की मुस्कराहट याद दिला जाता।
सारे गिले-शिकवे छोड़ देने का आघोष कर रही हैं।
ना जाने यह हवाएं मुझसे क्या कह रही हैं?

मेरा ज़र्रा ज़र्रा जैसे उनसे होकर गुजरता हो।
मेरा अक्स जैसे बस उन्हीं को पुकारता हो।
लगता है कि ये पवन मेरा वजूद बुन रही है।
ना जाने यह हवाएं मुझसे क्या कह रही हैं?



- रिशिका धनावडे
(BE EXTC)

तुम

जब भी तेरा ज़िक्र करती हूँ,
सांसें थम जाती है,
पर जान नहीं जाती है ।

दर्द होता है,
पर आवाज़ नहीं आती है ।
एक जैसे नहीं,
पर अलग भी तो नहीं है ।
पूरे नहीं,
पर अधूरे भी तो नहीं है ।

अजीब लोग है इस ज़माने में,
कुछ भूल नहीं पाते,
और कुछ याद नहीं रख पाते ।



-आरती नाईकाल
TE COMPS

इसरो(चंद्रयान 2)

अरे वो चाँद से कह दो ,
थोड़ा गुरुर कम करे
हम हारी बाजी को जीतने वाले सकिंदर है |
माना की आज खुशियाँ
हलक में नासूर सी बानी अटक गयी है ,
पर हम न रुकने वालो में से है |

कल फिर वो विक्रम आएगा ,
शायद जो चलते चलते थक गया है ,
कल को वो भी मुस्कुराएगा |
तेरे ही सीने पर उतारा जायेगा ,
क्योंकि तुझे अकड़ केवल अपनी दुरी की है ,
अभी तुमने हौंसलें नहीं देखे है हमारे जाबाजों के

कुलभूशण तिवारी
BE-EXTC



पहचान

बंद मुट्ठी मे लेके किस्मत,
कर रहे है इंतजार ।
राज है दुनिया के लिए
कहीं रेह ना जाए अंजान ।

हक है फूलोंसा खिलने का,
हक है रंगों से मिलने का ।
दूरियाँ बड़ाना उसूल है दूनिया का
क्यों हक नहीं खुल के जीने का?

क्यों सवाल है मेरे पहचान पर ?
क्यों आक्षेप है मेरे आने पर?
अगर ऐसी होती है इंसानयित
तो गर्व है मुझे बुराई पर

डर लगता है कहीं खो ना जाए
इस भीड़ मे मेरा अस्तित्व ।
इंतजार होगा उस दिन का
जब होगा मेरे पहचान का सम्मान ।



Marathi



स्वयंशिस्तितून परिपूर्णतेकडे

"असाध्य ते साध्य करिता सायास" ही माणसाची उपजत प्रवृत्ती कवयित्री शांता शेळके यांनी म्हटल्याप्रमाणे,

"सहज मिळते त्यात जीव तृप्त व्हावे,
जे सुदूर जे असाध्य तेथे मन धावे"

असा हा माणसाचा स्वभाव आणि या स्वभावामुळेच भारताने चंद्रयान मोहीम सारखा इतिहास रचला, असे असाध्य ध्येय गाठण्यासाठी महत्त्वाची असतात ती आत्मविश्वास आणि स्वयंशिस्त ही मुल्ये.

स्वयंशिस्त अंगी बाणली की आत्मविश्वास वाढू लागतो. 'स्वयंशिस्त' या एकमेव गुरुकिल्ली चा वापर जीवनात योग्य प्रकारे करून आपण आपले जीवन आदर्श, समाधानी, समृद्ध बनवू शकतो. अगदी शालेय जीवनात कोवळ्या वयातच स्वयंशिस्त विद्यार्थ्यांच्या मनावर रुजवली गेली पाहिजे. माणसाच्या हातून चुका होतात, पण चुकांची दुरुस्ती करण्यासाठी जी प्रबळ इच्छाशक्ती लागते ती स्वयंशिस्तीने प्राप्त होते.

स्वयंशिस्त म्हणजे 'ज्या वेळी जी गोष्ट करणे आवश्यक आहे व उपयुक्त आहे अशी गोष्ट आपल्याला जरी आवडत नसली तरीही कठोरपणे प्रत्यक्षात आणणे'. जी व्यक्ती स्वतः विजय नियंत्रण प्राप्त करू शकते अशी व्यक्ती इतरांवरही अप्रत्यक्षपणे नियंत्रण प्राप्त करू शकते. मानवी जीवनाचा अंतिम हेतू हा आपल्या व्यक्तिमत्त्वामध्ये जास्तीत जास्त परिपूर्णता प्राप्त करणे व समाधानी जीवन जगणे हा आहे व त्यासाठी स्वयंशिस्तीची कास धरावी लागेल.

सर्वांना माहीत आहे की सकाळी लवकर उठून प्राणायाम योगासने करणे हे शरीरासाठी उत्तम आहे; परंतु फक्त ५% टक्के लोक याचा प्रत्यक्षात अवलंब करतात आणि आपल्या जीवनात यशस्वी होतात. दैनंदिन व्यायाम, ध्यान, आहार, पोशाख, दिनचर्या, जमाखर्च, स्वाध्याय इतर अनेक कार्यांमध्ये स्वयंशिस्तता आपण अमलात आणू शकतो व इतरांसाठी आदर्श ठरू शकतो. दैनंदिन जीवनात जमाखर्च रोजनिशी, दैनंदिनी, वेळेचे नियोजन, सोशल मीडियाचा गरजेपुरता वापर, मोबाईलचा कल्पक वापर हे व असे अनेक उपाय करून आपण स्वतःला शिस्त लावू शकतो व अत्यावश्यक कार्ये दूरदृष्टी ठेवून दिरंगाई न करता पूर्ण करू शकतो.

आपल्या आताच्या प्रत्येक छोट्या- मोठ्या निवडी आपले भवितव्य निश्चित करीत असतात, म्हणूनच आपले आपल्याला ठरवायचे आहे की स्वयंशिस्तीची कास धरून जीवनात समृद्ध, समाधानी व्हायचे किंवा दिरंगाई करून वेळेचे गुलाम व्हायचे....

- मनाली संदीप परब
BE EXTC



प्रेम

पावसाच्या दिवसात चहा नि कांदा भजी यांचा आस्वाद घेण्याची मज्जाच काही निराळी असते . अशाच एका रिमझिम संध्याकाळी मी कांदा भजी चहाचा उपभोग घेत खिडकीपाशी उभा होतो . निसर्गाच्या अद्भूत क्षणांना निरखताना दुर रस्त्याकडेची कोणीतरी भिजत असल्याची जाणीव मला झाली . निरखून पाहिलं तर कोणीतरी सोडून दिलेले पोरकं झालेलं नि स्वतःच्या कर्माचा दोष देणारं 'प्रेम' मला दिसलं . जिवाच्या आकांताने रडून शोक करणारे त्याचे अश्रू ही जणू पावसाच्या थेंबांसह एकजीव झालेले . थंड अशा वातावरणात या हृदय पिळवटणाऱ्या दृश्यास पाहून न राहावल्याने मी तेथे गेलो . मी तेथे पोहोचताच त्याने मला घट्ट मिठी मारली जणू त्याला त्याचे दुःख विसरायला एका क्षणासाठी माझा आधार हवा होता .

अमावस्येच्या पूर्वीच्या चंद्राप्रमाणे अस्तित्त्व हळूहळू नष्ट होत चाललेलं ते प्रेम अचानक माझ्याशी बोलू लागलं "मिला आजच्या या गर्दीत मी हरवत चाललोय नि माझं अस्तित्त्व हळूहळू धोक्यात येत आहे . जिथे बघावं तिथे आकसी वृत्तीने लोक बदला घ्यायच्या भावनेने आपल्याच लोकांवर टिका करत आहेत . आजच्या जगात "Happiness" आणि "Pleasure" या दोन गोष्टींत प्रत्येक माणसामध्ये संभ्रम दिसून येत आहे . सतत नवीन प्राप्त करण्याच्या हव्यासापायी माणूस आपले नित्य जीवन जगायला विसरत चालला आहे ज्यामुळे नात्यातील पारदर्शकता खरेपणा नाहीसा होत आहे . खरं सांगायचं तर आजच्या व्देष मत्सर क्रोध अहम युक्त जगात राहण्याचा मला न्यूनगंड आलाय . कधीतरी वाटतं की एका संपूर्ण नकारात्मक माणसामध्ये शिरून स्वतःचाच बळी घ्यावा पण अशा वेळी माझे जिवलग मित्र म्हणजे आदर स्वाभिमान सर्जनशीलता नैतिकता इत्यादी सर्व एकल येऊन माझे मत परिवर्तन करतात . कुटुंब जिथे माझे मुलभूत स्थान असायचं तिथेच आता घटस्फोट भांडण वार्दविवाद बघायला मिळतात . अशा वातावरणात औदासिन्य एकलकोंडेपणा मानसिक ताण भीती इ . गोष्टींचा 'मी' पणा वाढू लागला आहे . माणसांचे असे पलटणारे रूप बघता प्राण्यांत आजही मी जिवंत दिसतो . ज्या जबड्याने वाघिण भक्ष्य फाडते त्याच जबड्याने ती आपल्या छाव्यांना घेऊन चालते . मगर ~~झड~~ही तिच्या पिल्लांना तोंडात पाळते . अशा विविध अपायकारक प्राण्यांतही आपणा सर्वांना एक हळवी बाजू दिसून येते . मग माणूसच का बरं बदलत्या जगात मला विसरत चालला आहेः सर्वांनीच एक लक्षात ठेवलं पाहिजे की माझ्यामुळे विश्वास आहे नि विश्वासातूनच दगडातल्या मूर्तीमध्ये देव निर्माण झाला आहे . आज कित्येकांत मी असूनही नसल्याची भावना आहे . मला सर्वांत जास्त मिळवण्याच्या हव्यासापायी सर्वांना माझी कमी जाणवत आहे . पण का बरं तुमच्या लक्षात येत नाही की जितकं मला वाटलं तितकाच मी वाढीन आणि दुप्पटीने परत येईन . परवा गणपतीच्या मिरवणुकीत एका माणसाला दारू पिऊन नाचताना पाहून देवाप्रतीच्या केलेल्या त्या विटंबनेची मला लाज वाटली . ठिकठिकाणी माझी भेसळ होत असताना दुसरीकडे काही जणांत आजही मी बिंबलो आहे . हिमा दास पी . व्ही . सिंधू चंद्रयान २ मध्ये असलेले हात ते ऊन वारा पाऊस सणवार न बघता २४ तास प्रामाणिकपणे काम करणारे पोलिस हे सर्व माझ्याशी राखलेल्या निष्ठेने आपापल्या क्षेत्रात सफल आहेत ."

तेवढ्यात आईचा फोन आला नि समोर असलेलं प्रेम तिच्या बोलण्यात उतरलं . प्रेमाची स्थिती जाणून आता माझेही पावसात दडणारे अश्रू पुसत मी घरी गेलो .

अपूर्व नागप

BE IT



मनाचे श्लोक, जीवनाचा आधार !

आजकालच्या जलद, धावत्या जगात माणसातले माणूसपण हरवत चाललेय आणि तो अधिकाधिक निराशेला बळी

पडतोय. सामाजिक आणि कौटुंबिक जबाबदाऱ्यांमुळे मानसिक दृष्टीन तो खचत चाललाय असं दिसून येतं. अशावेळी माणसं मानसोपचारतज्ज्ञाचा आधार घेतात. पण आपल्या मनाला नीट ओळखणारा खरा मानसोपचारतज्ज्ञ असतो तो म्हणजे आपण स्वतः. कधी कधी आपल्या स्वतःसाठी घालवलेला थोडा वेळ सुद्धा आपल्या मनाला अशी काही शांती देऊन जातो की आपल्या मनाला नवी स्फूर्ती येते आणि उत्साहाने मन भरून जाते. ह्या मनात नेमकं असतं तरी काय? ह्या मनाला नेमकं काय हव असतं? हे मन कधीच दुःखी होणार नाही यासाठी काय कराव? ह्या मनावर ताबा कसा मिळवावा? हे आणि असे अनेक प्रश्न आपल्याला पडतच असतात. आणि ह्या सगळ्या प्रश्नांसाठीच उत्तर म्हणजे मनाचे श्लोक !

‘मनाचे श्लोक’ ही तर मानसशास्त्र समजून घेणाऱ्यांसाठी पर्वणीच आहे. विवेकबुद्धी, विचार नियंत्रण, वासना संयम,

अपराधीपणातून मुक्ती अशा अनेक पैलूंवर त्यात संक्षेपाने मांडणी केली आहे. त्यातून रामदास स्वामी हे किती कसलेले मानसशास्त्रज्ञ होते, त्याची प्रचीती येते. मनाचं भटकेपण अधोरेखित करताना ‘बहु हिंडता सौख्य होणार नाही’ (श्लोक ४१)- आपणहून सुखाचा जीव दुःखमय करणारा माणूस ‘उभा कल्पवृक्षातळी दुःख वाहे’ (श्लोक ९१), ‘कळेना कळेना कळेना कळेना’ (श्लोक १४२) अशी पूर्ण निराशा, गोंधळलेली अवस्था! किती सूक्ष्म वर्णनं रामदासांनी केली आहेत! आणि त्यातून बाहेर पडण्यासाठी ठायी ठायी नेमके उपाय सुचवले आहेत. ‘विवेके क्रिया आपुली पालटावी’ (श्लोक १०५), ‘विचारुनी बोले विवंचुनी चाले’ (श्लोक १३२), ‘विवेके देहेबुद्धि सोडीनी द्यावी’ (श्लोक १२) हे तर नुसते मासले आहेत.

नको रे मना क्रोध हा खेदकारी;
नको रे मना काम नाना विकारी;
नको रे मना लोभ हा अंगिकारू;
नको रे मना मत्सरुदंभभारू;
नको रे मना द्रव्य ते पूढिलांचे;
अति स्वार्थ बुद्धी न रे पापसांचे;
घडे भोगणे पाप ते कर्म खोटे;
न होता मनासारिखे दुःख मोटे .



ह्या श्लोकातून रामदास आपल्या मनाने कुठच्या गौष्टी टाळाव्यात हे स्पष्ट केले आहे. किती मोजक्या पण समर्पक शब्दात समर्थ मनाशी संवाद साधतात ! मनाला संबोधणारे हे आणि असे अनेक मनाचे श्लोक जणू आपल्या जगण्याचा आधार आहेत. ह्यांचे पालन जर निष्ठेने केले तर मनावर ताबा तर मिळेलच, परंतु दैनंदिन आयुष्य सुद्धा अधिक सुखकर आणि सुसह्य होईल हे निश्चित !

मनाचे श्लोक हा आपल्या जीवनाचा आधार आहे

- फालगुनि घाटे

TE EXTC

आनंद बालपणाचा

बालपण जगायचं तरी कसं
हे कोणी शिकवलेल नसतं....
जसजसं हातातून निसटतं
तसतसं त्याचं मोल कळून चुकतं....

बोबडे बोल बोलत, रांगत रांगत चालत
घडपडण्याचा आनंदही वेगळा असतो....
लहानसहान गोष्टींसाठी केलेला हट्ट
अजूनही हवाहवासा वाटतो....

ABCD ची ही चिमुकली अक्षर
मनात खोल रूजते....
आज माल त्रासलेले हे मनं
एका-एका शब्दासाठी झुरते....

पकडपकडी, लपाछपी हा तर जणू
मैदानांचाही भूतकाळ ठरतो....
Facebook, WhatsApp वरचं
आमच्या Friendshipचा धागा गुंतून तुटतो....

येरे येरे पावसा, Baba Black Sheep
यांची लय अजूनही आठवते....
पण First, Second व Nightshift
करताकरता आमचीही तारांबळ उडते....

मैली, नाते, कुटुंब यांच्यासह
एकेक क्षण जोडावासा वाटतो....
कमावण्याच्या स्पर्धेत कणा मोडतांना
याही आनंदाला आम्ही क्षणार्धात मुकतो....

तिशी, चाळीशी पालटली तरी
अजूनही त्या बालपणासाठी झुरतोय....
परत मिळणार नाही हे समजल्यावर
एकटाच दुःखात विरतोय....

जगण्याच्या आनंदाचा अर्थ न समजलेली मी
इतरांना जगण्याची व्याख्या सांगतेय....
मनात माल खेद आहे की
आजही या आनंदाला मी स्वतः मुकतेय....
वेळ अजूनही हाती आहे तुझ्या
असा मनाला दिलासा देतेय....
आनंदाला मुकले असले तरी आज
त्या आठवणी एकचटण्याचा प्रयत्न तेवढा करतेय....

मान्य आहे की हे क्षण हिरवण्याचा
अधिकार माल कोणालाच नसतो....
पण हातांवरती पंखांचे अंधुक ठसे सोडून
हा क्षणही फुलपाखरासारखा निसटून जातो....

- खुशबू योगीराज चौधरी
FE-B (IT)



खेळ

दोन होड्यांचा तो खेळ
आज रडवेला झाला
पाहता पाहता साऱ्याचा
क्षणात परिहास झाला... . .

आतुरता असते ज्याची
त्याने केली आज राख
अन् परतीची विनंती
साऱ्या स्वप्नांचा आघात... .

बांध घालुनी आसवांना
उभा आहे माझा श्वास
डोळ्यांदेखत होत आहे
माय धरतीचा न्हास.....

काया पलटली सारी
दशा विरहाची न्यासी
झरा वाहतो तयांचा
रोखून पाखरांची स्वारी... .

पाहुनी पिल्लाबाळांना
आज घेते आहे ध्यास
रास करुनी स्वप्नांचा
आज ठाम आहे श्वास... . .

वाट पाहते सुखाची
आता होऊदे पहाट
नाद घुमुदे गगनी
या गरीबाची हाक... . .

-अश्विनी कदम
BE EXTC



TECHNICAL



TRANSMISSION



TRANSMISSION

Technical Project Competition where students from Engineering colleges participated



BEWARE, YOU CAN BE HACKED!!

If you read this headline a few years ago, you wouldn't have bothered to pay attention to this article, maybe because there were cyber-attacks happening every other day. But you may not want to do so this time around. So, now the obvious question that would come to your mind is, what has changed in the past few years in the world of technology making hacking far more dangerous? The answer to this question is the translation of damages caused by cyber-attacks from a virtual world to a physical world.

The technical advancements have increased the dependency of humans on computers enabled with Inter Networking Services, aka the Internet. More than half of the world's population is now connected to the internet. Essential services like banking, automobiles, home appliances, power grids, manufacturing industry, etc. are getting connected to the internet. Consider a scenario; you have a state of the art car which enables your car to connect to the internet. One day, you are traveling in your car. Suddenly, the windows of your car start to function automatically. A few moments later, an engine failure message gets displayed on the dashboard, the speed of your car starts increasing automatically, all this is happening without you having any clue about it. Before you get time to react, the car changes its direction and rams into a nearby barricade but fortunately, you escape unhurt. You must be surely wondering how did this happen? Someone sitting somewhere in the world has entered into a network in which your car is connected to, and randomly done some changes into your car's operating system and caused the crash. This is what cyber-attacks are capable of these days. Scary, isn't it? The cyber-attacks are even cable to change chemical compositions of life-saving medicines by hacking into pharmaceutical industry servers, modify hospital databases that contain patient's medical history, steal your personal information, etc. These attacks have the potential to cause physical harm.

Let's see an example of how easy it is for an attacker to attack your mobile and get details of your mobile. You too can try the following steps:

Step 1: Go to the Grabify IP logger website. You can search for it on google.

Step 2: In a new tab, open any content you want the victim to see, like images from google images. Copy that link.

Step 3: Paste the copied URL in the Grabify IP logger website where a specific section is provided for the same.

Step 4: You can change various parameters of the link and make it look much more believable. Send this link to the victim.

Step 5: Various details of the Victim's phone like OS version, browser used, IP Address, etc. get displayed on your screen whenever the victim clicks on it and opens that link.

Step 6: You can use the IP locator website to get coordinates of the IP Address. Search those Coordinates in Google Maps and you have Geo Location of Victim.

Now how can we stay safe from such incidents? Firstly, do not click on any link that appears on your email or WhatsApp chats. Secondly, connect services like home appliances, automobiles, bank accounts, important documents containing personal information to the internet only if required. Thirdly, do not log in to any of your accounts from untrusted computers; do not share passwords or details of any accounts that are connected to the internet or. And lastly, choose the secure and reliable service provider for these essential services. If you want to minimize the chances of a cyber-attack on you, Be Smart and Stay off Grid!!



-ROHAN PARANJPE
BE IT



BLOCKCHAIN

The blockchain serves as an immutable ledger that can record transactions efficiently, in a verifiable and permanent way, allowing transactions to take place in a decentralized manner as required. It was invented by a person or a (group of people) under the pseudonym, Satoshi Nakamoto. But since then, it has evolved into something greater, and the main questions every single person is asking are:

What is Blockchain?

Blockchain is supported by the online and open-source platform where participants can send and trade any kind of data, in such a way that theft, fraud and counterfeiting are rather mathematically impossible. To do so, particular cryptographic techniques are deployed to recreate self-securing peer-to-peer environments, in which no central server or entity is required to keep track of transactions.

Who controls the Blockchain?

An open blockchain network has no central authority — it's the very definition of a democratized system. Since it's a shared and immutable ledger, the knowledge in its open for anyone and everybody to ascertain.

What are the 3 key characteristics of blockchain technology?

1. Decentralization
2. Transparency
3. Immutability

What is Blockchain used for?

Blockchain started with being used for cryptocurrencies and over time found its use in industries such as reputation system, financial services and Internet of Things (IoT) and so on.

Pillar #1: Decentralization

Before Bitcoin and BitTorrent came along, we were more into centralized services. An example of a centralized system is banks. They store all of your money, and therefore the only way that you simply pay someone is by browsing the bank.

Some of blockchain's most important and elaborated applications certainly are so-called Decentralized Autonomous Organizations (DAOs): societies where members can freely join or quit anytime, uploading resources and claiming rights towards the institution of common rules and goals.

Pillar #2: Transparency

A person's data and identity are hidden online via complex cryptography and represented only by their public address. Say, if you were to see up a random stranger's transaction history, you'll not see "Ava sent 1 BTC" instead you will see "1MF1bhsFLkBzzz9vpFYEm-vwT2TbyCt7NZJ sent 1 BTC". So, while the person's real identity is secure, you'll still see all the transactions that were done by their public address.

Pillar #3: Immutability

Immutability, within the context of the blockchain, means once something has been entered into the blockchain, it can't be tampered with.

The transaction identifier is a string of alphanumeric code that has been encrypted several times through a function called Hash.

It uses the SHA-256(Secure Hashing Algorithm 256), no matter how big or small your input is, the output will always have a fixed 256-bits length.

How is BLOCKCHAIN maintained?

The blockchain is maintained by a peer-to-peer network. The network is a collection of nodes that are interconnected to one another. Nodes are individual computers which absorb input and perform a function on them and provides an output. There is no one central server, now there are several distributed and decentralized peers.

"Blockchain technology is not just more efficient thanks to settling securities It will fundamentally change market structures and perhaps even the architecture of the web itself "

- Abigail Johnson



**- JOSHUA
SE COMPS**

CLOUD COMPUTING

Cloud computing is on the hype right now, but what does it mean? Do you have to be sitting on a mountain with a computer among the clouds or on a plane with a laptop, can you type on cloud computing keyboard?

Cloud computing is pretty big and growing bigger every day. There are 3 layers of cloud computing. Companies use them differently based on what they offer. At the bottom is the foundation, the infrastructure. This is where things start and people begin to build, this is the layer where cloud hosting lives. So let's talk about hosting in a cloud, which is an older concept that due to technology advances is finally starting to work well. Let's say you own a company and you have a website and the website has lots of short conversations that are exchanged between members. You start with the few users talking to each other and they start telling their friends about your website and they tell their friends and their friends tell their friends and so on, you are successful. But, when success comes with problems your equipment just can't keep up with the demand, your service slows down and suddenly you are in trouble. A few years ago you would've put your website on a computer or a server somewhere and when success kicked in you had to run around to buy brand new servers, set them up or have someone set them up for you. Hundreds and thousands of companies do this now. It cost a lot of money and takes a lot of time. This is called 'hosting'. It takes time to set them up and they cost quite a bit of money to keep running all the time. They pay for these servers when you're using them and you pay for them when you're not using them. Assume you want to build your server and improve your product but instead of success customers are getting angry and your successful business is shrinking away.

Now you have a better option, Cloud Computing. With cloud computing, you've access to computing power instantly when you need it. Put your website on the cloud server just like you put on the dedicated server and when people start visiting your site. If you suddenly need more computing power dedicated to your website you can scale up as much as you need almost instantly. You get your computing power as you need it from the cloud on-demand and your customers stay happy without noticing any difference and if your traffic dips back down then release your servers back to the cloud just easily. This is a major advantage.

Here billing is easy to it works the same way you pay for gas or electricity. When you turn on a light the meter starts running and you are billed for the electrical power that you take and when you are done with the light you turn off the switch and meter stops

running or you can think of getting a taxi the meter runs when you ride it runs much slower when you stop and when you are done with your ride you get out and pay your fare, why buy the whole taxi when you can just pay for the trip. But wait, how will it work with the cloud can you physically touch your hardware? Easy, your personal computer you remotely access your cloud server and control it. You can put whatever you need in a website, pseudo-code or whatever and then just connect it whenever you're done. You never actually touch it physically. The key to cloud computing is not to focus on the hardware you just focus on the website or your code.

Think like you were any cloud service, do you care on what physical server your emails are stored? Isn't it vastly more important on how these services work and are they reliable and stable and easy to use?

Here are 3 reasons why cloud hosting services are becoming so popular:

Scalability

Cloud hosting is instant

Save money

With cloud hosting, you can stop worrying about your hardware you can work on building your business instead. Using cloud hosting will save your time and money and it's there for you to use instantly. So dumb those old servers and head to the clouds.

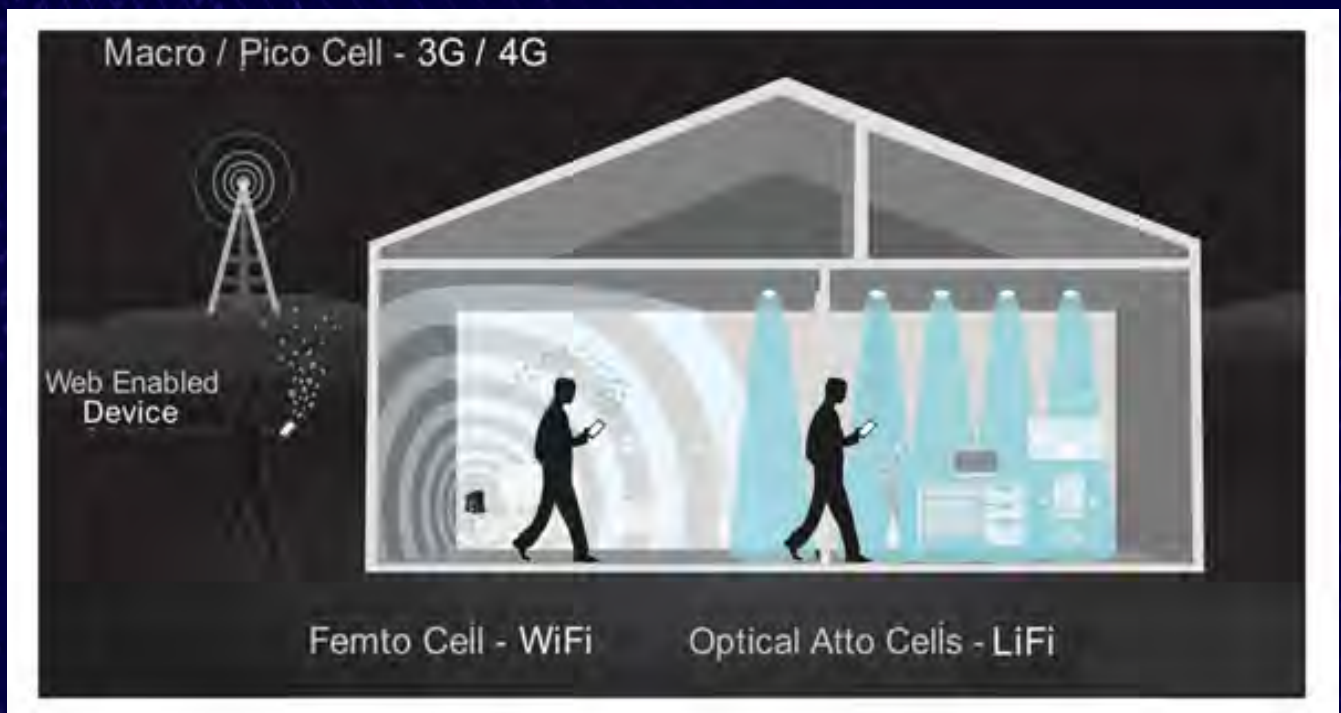


**- SAGAR MEHTA
TE COMPS**

LIGHT FIDELITY (LI-FI)

FUTURE OF 5G VISIBLE LIGHT COMMUNICATION SYSTEM (VLC)

The term Li-Fi was first coined by German physicist Harald Haas during a 2011 TED Global talk in Edinburgh. Li-Fi is a wireless communication technology, which utilizes light to transmit data and position between devices. Li-Fi is an exciting breakthrough in 5G visual light communication systems and the future of wireless Internet access where devices attempt to transmit not one data stream, but thousands of data streams in parallel, at higher speeds.



Picture this-you wake up and tap your smartphone to switch on your coffee machine. As you make breakfast, your refrigerator sends you a text that you're out of orange juice. Clued-in with this message, your car's GPS routes you to the grocery shop on your way back from work, as you use your phone to switch on your home heating system, so things are toasty warm when you get back, Smartphones will download traffic information from traffic lights or a program guide from a television, Shops will transmit advertisements to your phone as you pass by and bus schedule changes will be transmitted to a screen

at the stop. Smarter home appliances that talk machine-to-machine (M2M) are already being extensively researched, where LED lights on electronics function as Li-Fi access points.

At the forefront of this connectivity phenomenon popularly known as the 'Internet of Things', is an optical communication technology that's taking the world by storm. With Li-Fi, information hitches a ride along a spectrum of visible light. Light-emitting diode (LED) bulbs, transmit data when they are switched on and off so rapidly in nanoseconds, that the human eye cannot see it. This data is registered by special equipment, making it possible to provide wireless Internet connectivity at a current experimental speed up to 10 Gbps, which is estimated to be 250 times faster than 'superfast' broadband. The vast availability of LED light bulbs will drive the future ubiquity of connectivity even in places where Wi-Fi fails- like on an airplane and in submarines. Li-Fi technology is the tip of the iceberg.

Another advantage of Li-Fi is zero electromagnetic interference, allowing connectivity even in areas where Wi-Fi isn't accepted - hospitals and nuclear plants among others. Also, Li-Fi offers better data defense as light waves can't pass through walls, making it impossible to hack any internal systems in high-security buildings.

As radio waves used by Wi-Fi get more congested and the demand for faster and more efficient wireless communication escalates, the future is bright for Li-Fi as a reliable, affordable and more secure solution.

Is it anything more than a dream? We may find out soon enough.



- PROF. SHAILAJA UDTEWAR
EXTC DEPT

ROBOTIC PROCESS AUTOMATION

Digital transformation covers the use of digital technologies in reshaping business processes, so it's more than automation. Still, automation already brings unique benefits. Automation is happening across all industries as well as our lives. RPA is here to reboot work by taking the robot out of the human so that humans can get more time for valuable and meaningful work: make judgment calls, handle exceptions, and provide oversight.

What is Robotic Process Automation?

Robotic Process Automation is the technology that enables computer software to emulate and integrate actions typically performed by humans interacting with digital systems.

RPA solutions can be thought of as virtual robotic workforces, whose operational management is made by the business line (only supported by IT), just like for a human workforce.

Why Robotic Process Automation?

RPA is non-invasive

RPA offers a reliable, fast and cost-efficient solution for a “light-weight” integration into processes and IT assets.

RPA is easy to scale

If an RPA solution is used, companies can easily adapt by scaling the solution up or down, depending on the requirements.

RPA is future proof

Robots work with today's technology, yet the automation is extensible, able to handle tomorrow's technology.

A new study developed in collaboration with The Economist Intelligence Unit (EIU) found that:

1. 91% of the interviewed organizations are using automation technologies
2. 73% are very satisfied with the benefits resulting from automation and businesses in every industry find value in it
3. 79% believe that automation is most effective when it complements humans, not replaces them

What are the tools used for implementing RPA?

1. UiPath
2. Automation Anywhere
3. Blueprism
4. WinAutomation

UiPath RPA Case Study: Banking Automation

Federal Bank is a leading private sector bank. In the last 45 years, they have expanded their presence beyond Kerala to build a sizeable business in India. So, previously they had a regulatory requirement and had to follow UCIC (unique custom customer identification code) to be maintained but to the group, these myriads of customers manually were quite impossible. So, there was no choice but for them to look at smarter ways of doing it and that is how they got on to the spot of automation in 2016. Within which they chose RPA as their go-forward tool to use in operations to make their processes much more efficient, scalable, error-free and from a cost perspective makes it more productive for the bank. When the bank contacted the UiPath team provided excellent support. The bank had to merge a very large number of customer IDs, legacy databases.

All their calculations showed that it would take about 10 people sitting for a year to try and do this before they made it a complete exercise. By adopting robotic process automation, the bank was able to reduce that time drastically by 50%. They got it completed in 6 months as against the one-year project that they had envisaged. Another example is that the bank has been implementing Bharat QR which is the QR code at their merchants. Using RPA, what started like 7 minutes was brought down to 1 minute and recently crossed the 1 lakh mark of BQR's implemented. This would have been kind of unimaginable in a manual environment. As a result of this, reduce costs, customer experience and lower operational risk improved the overall efficiency and growth of the bank. When the power of artificial intelligence and robotic process automation will be combined then operation teams and technology teams of the bank will truly deliver the power of RPA.



**- RISHIKA DHANAWDE
BE EXTC**

REALM OF QUANTUM COMPUTING

Quantum Computing possesses and harnesses some of the mystical phenomena of quantum physics and mechanics to deliver immense leaps forward in processing power.

“The world is running out of computing capacity. Moore’s law is kinda running out of steam ... [we need quantum computing to] create all of these rich experiences we talk about, all of this artificial intelligence.”

- Satya Nadella (CEO of Microsoft)

The secret to a quantum computer’s power lies in its ability to generate and manipulate qubits(quantum bits).

Qubit:

Generic modern computers use bits, a stream of electrical or optical pulses representing “1s” or “0s”. The amazing thing is, qubits can achieve a mixed state, called a “superposition” where qubits can be 0 and 1 simultaneously.

How does superposition help?

For instance, a traditional computer to get out of the maze tries every possible corridor, turning back at dead ends, until you eventually find the way out. But superposition allows trying all the paths at once which is merely impossible for a classical computer.

Entanglement:

Quantum entanglement allows qubits that are separated by huge distances to interact with each other instantaneously.

Decoherence:

Decoherence results in errors in quantum computational systems where information is lost. Quantum computers are very fragile and the slightest change in temperature impacts the atoms and causes decoherence. In 2011, D-Wave Systems, a Canadian quantum computing company declared D-Wave One, delineated as “the world’s first commercially available quantum computer”, which is operating on a 128-qubit chipset. Cores of D-Wave operate at -460 degree F, which is close to absolute zero.

Quantum Supremacy:

It’s the point at which a quantum computer can complete a mathematical calculation that is demonstrably beyond the reach of even the most powerful supercomputer.

The world's largest quantum computer processor "Bristlecone" developed by Quantum AI lab of google is a 72-qubit system that surpassed the IBM Q 50-qubit processor. D-Wave Systems has recently announced Pegasus, featuring 2.5 times the previous D-Wave 2000Q.

RSA key encryption and decryption problem:

RSA encryption has a bit length such as 128-bit, 256 bit. The current recommended key length is 2048-bit, which is equal to $(340,282,366,920,938,463,374,607,431,768,211,456)^{16}$ possible keys.

RSA encryption uses two numbers as it's a public key, one for encrypting the message and other for decrypting operation that produces cipher. Modulus is the product of two very large numbers and knowing these two numbers will allow you to reverse engineer the private key and unlocks the encryption.

$$p \times q = 5915587277 \times 1500450271 = 8876044532898802067 = pq$$

Here the public key is pq which is a product of two large prime numbers

Shor's Algorithm is a quantum algorithm that runs in polynomial time $(O((\log N)^3))$ and $(\log N)$ space while a classical computer can't do it in polynomial time.

Now, to crack the RSA algorithm following steps are followed:

Step 1: Use the GCD (greatest common divisor) on N and m, where N is the number you are trying to factor, and m is a random positive integer less than N.

If $\text{gcd}(m, N) = 1$, continue.

Step 2: find the period P of:

$M \bmod N, m^2 \bmod N, m^3 \bmod N \Rightarrow$ this is the quantum computing step.

Step 3: if the period P is odd, go back to step 1 and choose another random number else to continue.

Step 4: Check that $m^{P/2} + 1 \neq 0 \bmod N$, if this is true continue else go back to step 1.

Step 5: Solve $\text{gcd}(m^{P/2} - 1, N)$

Answer to this is a non-trivial prime factor of N and now you have the key to break RSA. A quantum computer with 4099 perfectly stable qubits could break the RSA-2048 encryption in 10 seconds compared to a classical computer that would take 300 trillion years to break it.



**- LAKHJAN JINDAM
BE IT**

EDGE COMPUTING

Edge computing refers to data processing power at the edge of a network rather than holding that processing power in a cloud or a central data warehouse. Edge Computing is pushing the frontier of computing applications, data, and services away from centralized nodes to the logical extremes of a network. It allows analytics and data generation to occur at the supply of the information. This approach needs investing resources that will not be endlessly connected to a network like laptops, smartphones, tablets, and sensors. There are many examples where it's advantageous to try and do so. For example, in the industrial Internet of Things, applications such as power production, smart traffic lights, or manufacturing, the edge devices capture streaming data that can be used to prevent a part from failing, reroute traffic, optimize production, and prevent product defects.

First, it's vital to know that cloud and edge computing are totally different, non-interchangeable technologies that cannot replace one another. Edge computing is employed to process time-sensitive data, while cloud computing is used to process data that is not time-driven. With the amount of data we currently process, cloud computing isn't the best choice for latency-intolerant and computation-intensive applications. When you compute and analyze all information within the cloud, you inevitably face two problems: increased latency and wasted resources of decentralized data centers, cloudlets, and mobile edge nodes located at the edge of the network. This is particularly obvious in IoT: the amount of intelligent devices is growing quickly. The main problem is that all of these devices generate huge amounts of data but don't process it. Instead, they send all this information to the cloud, which leads to the overloading of both data centers and networks. The increased latency is a great challenge for IoT and mobile virtual reality products. Performing computation closer to the source of data can help lower the general dependence of your service or app on the cloud and make data processing faster and because of that Edge computing is the best solution.



**- HIRALAL PUROHIT
BE IT**

NEURALINK

“MERGING” HUMANS WITH COMPUTERS

The idea of linking our brains with computers can sound crazy and creepy at the same time. But the company Neuralink, founded by Elon Musk, is on its way to convert this idea into a reality. Their goal is to implant devices in paralyzed humans, allowing them to control phones or computers.

Linking human brains with computers is not a relatively new concept. It was first implemented on a person named Matthew Nagle which allowed him to a computer cursor. Then in 2006, Nagle played Pong using his mind, which took him only 4 days to learn. The system used in these cases is called the BrainGate which was developed initially at Brown University. BrainGate uses fewer channels than Neuralink is promising whereas Neuralink technology is more difficult to implant than BrainGate.

Elon Musk is focusing more on the “bandwidth” as it takes time to push out information via your voice or thumbs as compared to when you are already connected to a machine. His main goal for this system is to allow humans to communicate with machines at a much faster pace directly through their brains. To make it possible, Neuralink has developed a custom chip that is better able to read and process signals from the brain. For now, it can only transmit data via a wired connection, but the ultimate goal is to go wireless. The wireless goal will be embodied in a product called “N1 sensor” which will be implanted inside a human body to transmit data wirelessly to an external device.

Another thing that makes Neuralink stand apart from BrainGate is the flexible “threads” which are 4 to 6 μm in width. They create the possibility of transmitting a higher volume of data. The system could include as many as 3,072 electrodes per array distributed across 96 threads.

The company is still testing on rats to make sure that the platform is stable. Also in the future, they hope to use a laser beam instead of drilling holes in the skull to get through it. Elon Musk eventually wants to achieve a symbiosis with artificial intelligence and in a world where human beings will be left behind by the computers, he wants to create technology that allows humans to merge with AI.



- SIDDHESH SHINDE
BE IT

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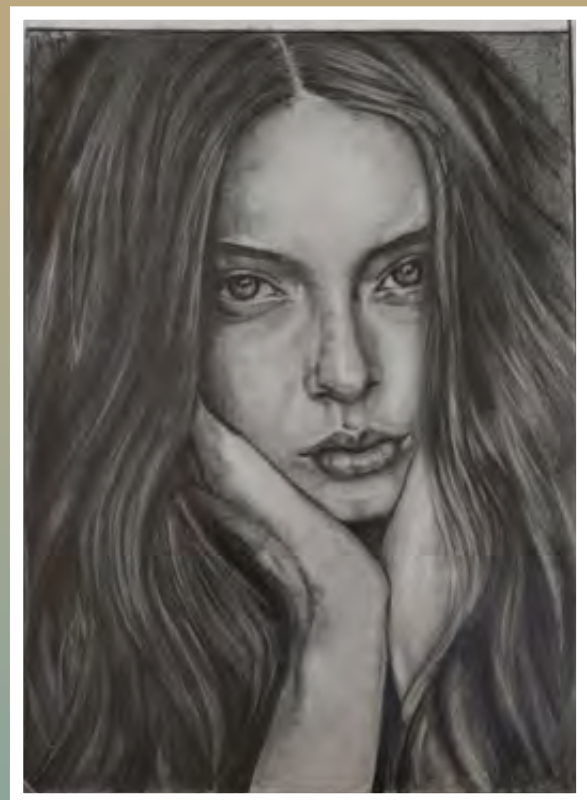




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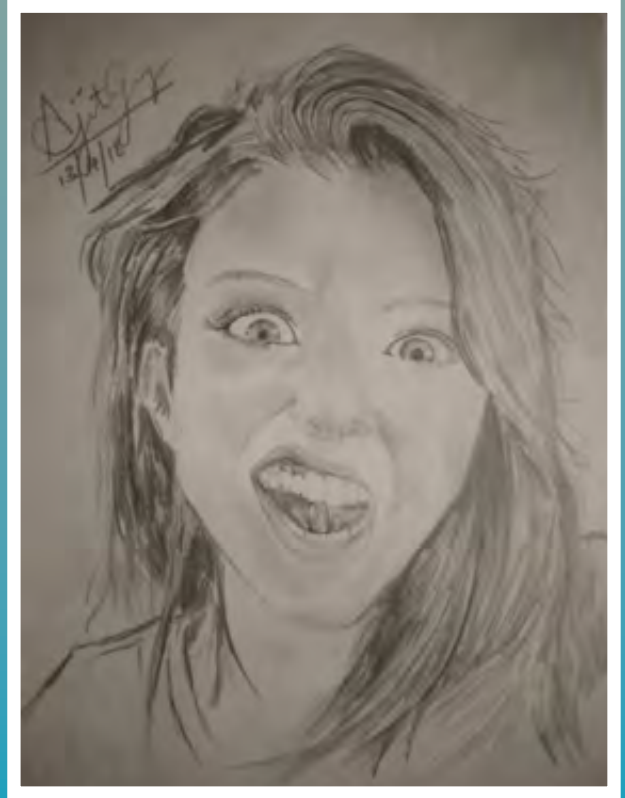
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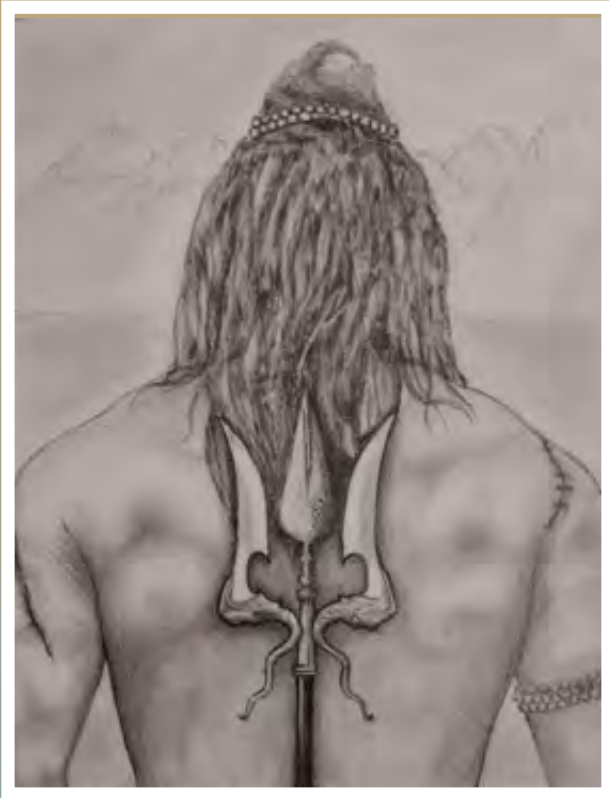
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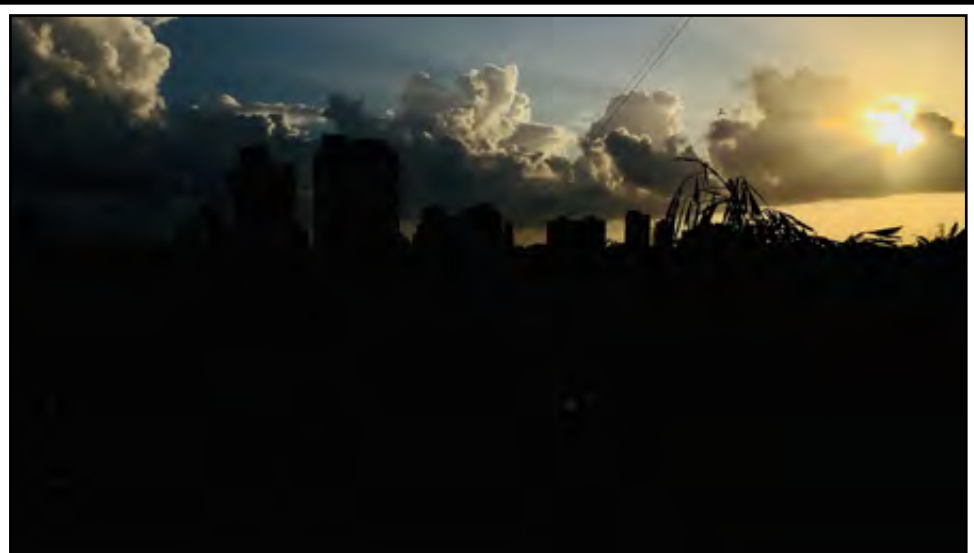
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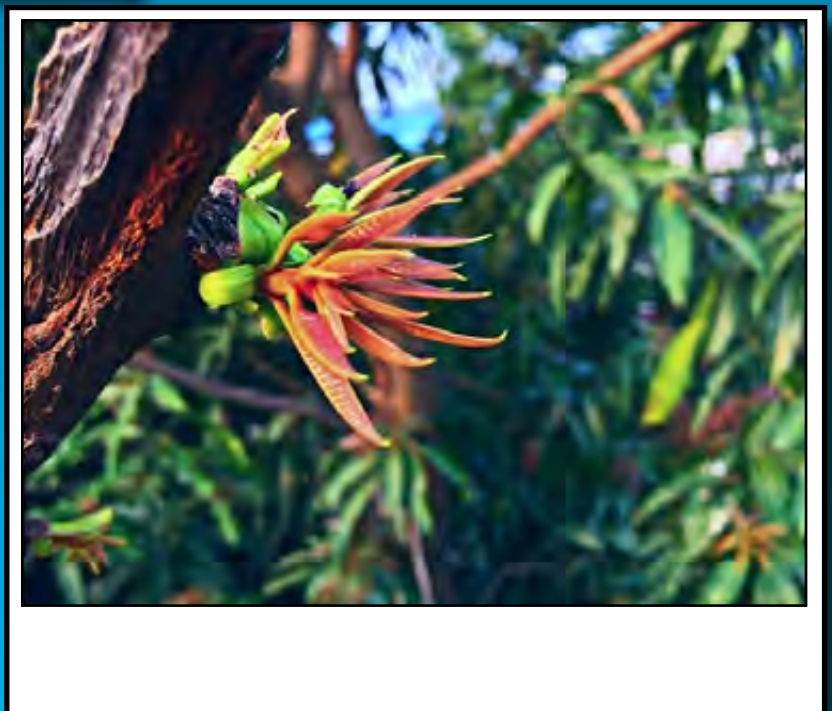
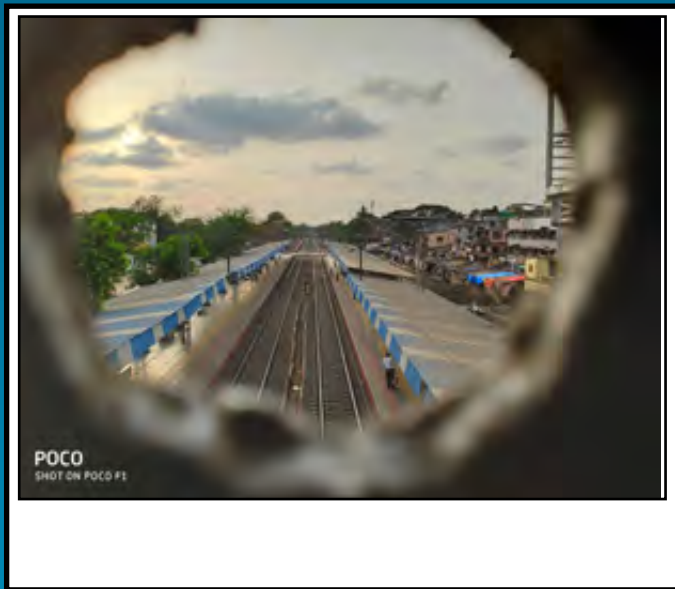
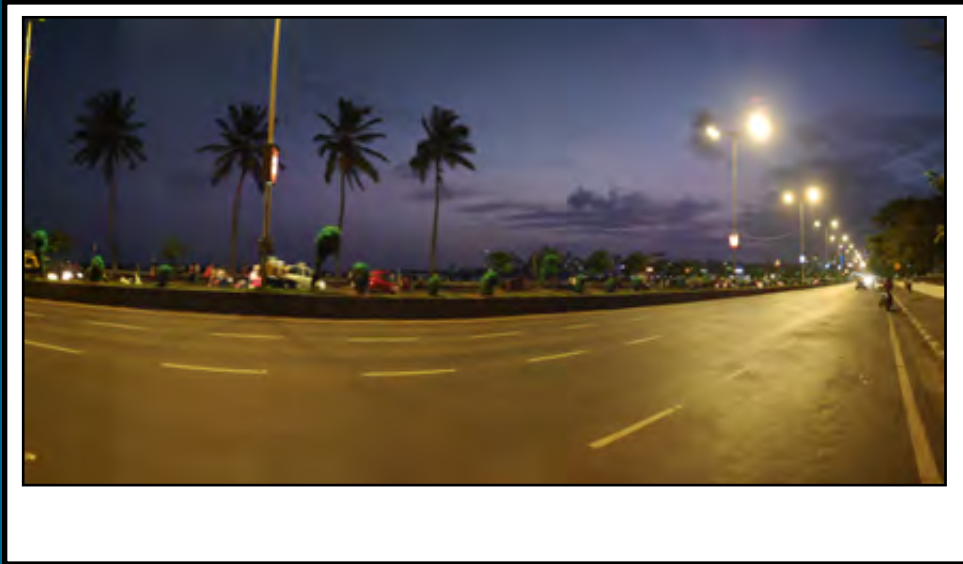
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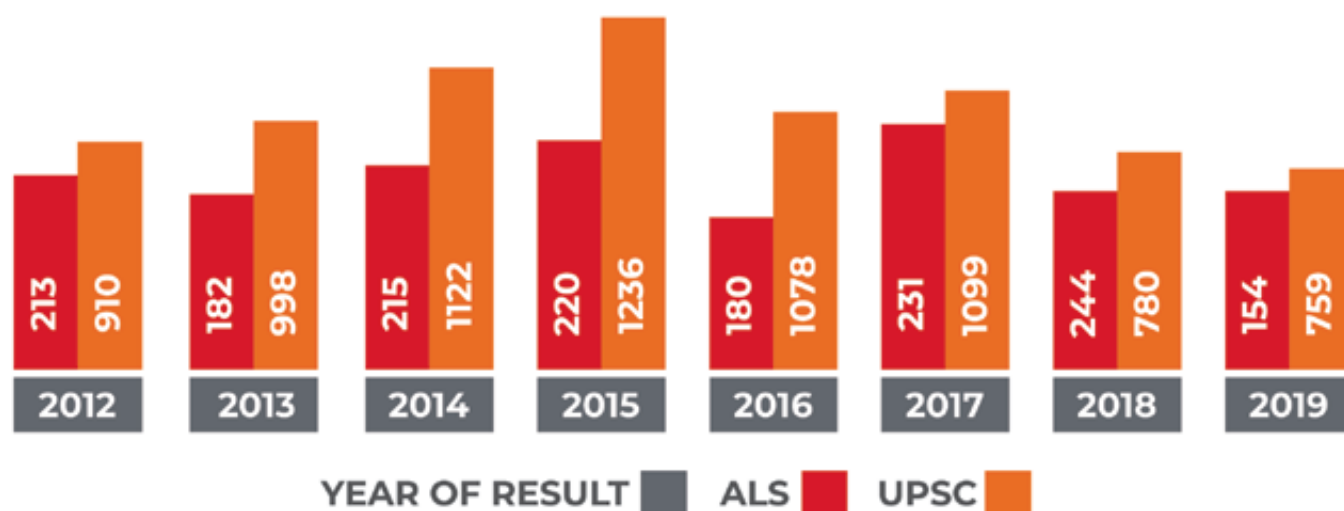

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