SIR M.VISVESVARAYA INSTITUTE OF TECHNOLOGY
Approved by AICTE | Affiliated to VTU, Belagavi | Accredited by NAAC
Bengaluru-562157, Karnataka, India

Department of Information Science and Engineering

Department Newsletter

INFOSPARKS

Academic Year -2019-2020

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01.   About the Department

DEPARTMENT VISION	DEPARTMENT MISSION
• To empower students with knowledge and skills todevelop the competency in the emerging areas of Information Technology.	• To train the students to have Professional career in IT industry and Higher Education through quality education • To provide outstanding Teaching and Research environment by implementing innovative Teaching and Research Methodologies for Quality Education and Research

PROGRAMME EDUCATIONAL OBJECTIVES(PEO)
PEO1 : Graduates will have Prospective careers in the field of Information Technology. PEO2 : Graduates will have good Leadership Qualities, Self-Learning abilities and zeal for higher studies and Research. PEO3 : Graduates will follow Ethical Practices and exhibit high level of Professionalism by participating and addressing Technical,Business and environmental challenges.

PROGRAMME SPECIFIC OUTCOMES(PSO)
PSO 1: Students will have the Knowledge of Software, Hardware, Algorithms, Modeling Networking and Application Development.
PSO 2: Students will be able to Develop and Implement efficient and Secure Algorithms using Appropriate Data Structure and Database.
PSO 3: Students will be able to find better solutions by using Computer Programming Languages.

02. MESSAGE FROM THE HEAD OF THE DEPARTMENT

Welcome to the Department of Information Science and Engineering at Sir.M.Visvesvaraya Institute of Technology, Bengaluru. We started our journey in the year 1999 with an intake of 60 students. Over the last 20 years, we have grown our expertise and competence in the core field of Information Science and Engineering.

We have a strong undergraduate program in Information Science and Engineering and having approved Research Centre by Visvesvaraya Technological University(VTU), Belagavi. At present, the department has 6 Ph.D. Research scholars. Our Department hosts several National Level Conferences, Workshop, Seminars, Guest Lectures, Alumni Lectures, Faculty Development Programme (FDP), Student Development Programmes (SDP), Hackathons periodically.

The main focus of our curriculum is to impart technical knowledge and by using Innovative Teaching Learning methodologies.
We motivate our students to do innovative projects and find a solution to the problems in the real world.

Our Undergraduate students are encouraged to undertake various Technical projects and internships in leading IT Industries and also in Central Government organizations like HAL, BHEL, IITs, etc.. Our department maintains active research groups for carrying out collaborative and interdisciplinary research. We have received Industrial funding for research and we are providing consultancy services.

Our department has a strong Alumni Network and our Department Alumni are working all around the globe. Our Alumni regularly visit the Department and deliver Alumni Lecture to our students. Our students are placed in good companies like Infosys, TCS, Amazon, Accenture, CTS, Robert BOSCH, Wipro, Tech Mahindra, IBM, Cisco, and Societe Generale. More than 10 Percentage of students who are passing out every year are doing their Masters in foreign Universities.

Our Department has a distinguished record in both teaching and research. Faculty members have excellent academic credentials and are highly regarded. Our faculty members serve on the editorial boards of national and international journals, review technical articles for journals on a regular basis, and organize National level conference symposia and conferences.

Best wishes,
Dr.P.VIJAYAKARTHIK M.E., Ph.D.,
Head of the Department and Professor,
Department of Information Science and Engineering,
Sir MVIT, Bangalore

02. DEPARTMENTAL EVENTS

TECHNICAL EVENTS CONDUCTED IN DEPARTMENT

FACULTY DEVELOPMENT PROGRAMS/ STUDENT DEVELOPMENT PROGRAMS ORGANIZED

1. Hackathon

Programm co-ordinator Dr.Vanipriya CH , Resource person , Mr.Abishekh,   Senior Software Engineer, Value Pitch Technologies,Mumbai conducted three days " Technical Hackathon " on 16-March-2019and participated 60 students.

2. Workshop "Angular JS"

Programm co-ordinator Mrs.Smitha PatilMrs.Padmini, Resource person , Mr.Jeyanth, Software Engineer, Soceite Generale, Bengaluru conducted three days " **SDP Programme on "Angular JS** " on 26-4-2019 and participated 40 students.

Workshop "Angular JS"
Programm co-ordinator Mrs.Smitha PatilMrs.Padmini, Resource person , Mr.Jeyanth,
Software Engineer, Soceite Generale, Bengaluru conducted three days " **SDP Programme on "Angular JS** " on 26-4-2019 and participated 40 students

3. Enterprise Computing and opportunities in this space

Programm co-ordinator Mr.Vijayakumara, **Resource person** , Mr.Poornima Iyengar University Relations Manager. Shankar Purandare, IBM Bangalore conducted three **SDP Programme on "Enterprise Computing and opportunities in this space** on 29-April-2019 and participated 65 students.

4. Student Development Programme on Microsoft Application Development

Programm co-ordinator Dr.P.Vijayakarthik, Resource person , Mr.Manish,Femtosoft Technologies, Bangalore conducted three days Student Development Programme on Microsoft Application Development " on 5-9-2019 and participated 63 students.

One day student development Programme on ANGULAR JS

04. Faculty Achievements

ISE Staff Research Publication Details (Year :July 2019-June 2020)

Sl. No.	Name of the Staff Member	Paper Title	Journal/Conference Title	Volume, Issue	ISSN/ISBN No.
1.	Dr.P.Vijaya Karthik	Brain Tumor Segmentation Using Convolutional Neural Networks in MRI Images	Journal of Medical Systems	Scoupus and SCI indexed Journal 7 th July 2019.	ISSN: 0148-5598,
2	Dr.P.Vijaya Karthik	An Effective PHR Based Secure Data Distribution Using KC-ABE in Cloud Environment	International Journal of Engineering and Advanced Technology	Volume Number 9, Issue No. 1 October 2019.	ISSN 2249-8958
3	Dr.Seshappa S N	A Hardware Implementation of Hazardous gas detection using robots	International Journal of Engineering Trends and Technology (IJETT) – Volume 67 Issue 7- July 2019	Volume 67 Issue 7- July 2019	ISSN: 2231-5381
4	Mr.Byre Gowda	A Hardware Implementation of Hazardous gas detection using robots	International Journal of Engineering Trends and Technology (IJETT) – Volume 67 Issue 7- July 2019	Volume 67 Issue 7- July 2019	ISSN: 2231-5381
5	Mr.Vijaya Kumar	A Hardware Implementation of Hazardous gas detection using robots	International Journal of Engineering Trends and Technology (IJETT) – Volume 67 Issue 7- July 2019	Volume 67 Issue 7- July 2019	ISSN: 2231-5381

6	Dr.P.Vijaya Karthik	Energy Efficient Mobile Sink based Routing Model for Maximizing Lifetime of Wireless Sensor Network	Global Journal of Computer Science and Technology: E Network, Web & Security	Volume Number XIX, 2019.	ISSN No.0975-4172.
7	Dr.P.Vijaya Karthik	An expert agent based cloud Service Discovery Using Elliptic Curve Cryptography Authentication	ournal of Advanced Research in Dynamical & Control Systems	volume number 11, Year -2019 page number 786	ISSN 1943-023X
8	Dr.Vanipriya	Prediction of Stock Values using Sentiment Analysis on Twitter Data	International Journal of Science and Research (IJSR)	Volume-8 Issue-5 May 2019.	ISSN 2319-7064
9	Ms.Suguna M K	Safe Validation of Shoulder Surfing using the concept of Secret password with Pass matrix	International Journal of Advanced Research in Computer Engineering and Technology	Volume -8 Issue-5 May 2019.	ISSN 2278-1323
10	Mr.Manohar	Sketchai: Using FCNS to Extract Line Art Drawings	International Journal of Recent Technology and Engineering	Volume-8 Issue-4, November 2019	ISSN: 2277-3878

05.STUDENTS ACHIEVEMENTS

Slno	Student Name	Paper Title	Journal Name	Volume and Issue
1	1.Aniket Harsan 2.Kishan Kumar jha 3.Shashwat Srivastava 4.Abhinav Raj	Fruit Freshness Detection Using Cnn Approach	International Research Journal of Modernization in Engineering, Technology and Science	e-ISSN: 2582-5208 Volume:02/Issue:06/June-2020
2	1.Abhishek Hegde 2.Yash Gupta 3.Swapnil Shikhar 4.Hrishikesh Verma	Autonomous Driving Simulation Using Computer Vision	International Research Journal of Modernization in Engineering, Technology and Science	e-ISSN: 2582-5208 Volume:02/Issue:05/May-2020
3	1.Megha S Kencha Reddy 2.Chandana 3.Ranjitha N 4.Sushma Fouzdar	Technical Aspects Of Illustris- A Cosmological Simulation	International Research Journal of Engineering and Technology (IRJET)	e-ISSN: 2395-0056 p-ISSN: 2395-0072 Volume: 07 Issue: 05 | May 2020
4	1.Anas Jmail 2.Sanjana Dwivedi	Image captioning: Transforming Sight Into Scene	International Research Journal of Modernization in Engineering, Technology and Science	e-ISSN: 2582-5208 Volume:02/Issue:06/June-2020
5	1.Abhijit Nelli 2.Komal Nalige 3.Rennith Abraham	Landmark Recognition Using Inception-V3	International Research Journal of Modernization in Engineering, Technology and Science	e-ISSN: 2395-0056 p-ISSN: 2395-0072 Volume: 07 Issue: 05 | May 2020

06. Students Placements

Sl.No	USN	Name	Name of the Company Placed	Package
1	1MV16IS001	AAYUSH BHALOTIA	Altra, Accenture	3.5 Lakhs Per Annum
2	1MV16IS003	Abhishek Hegde	Microfocus, TCS	7.5 Lakhs Per Annum
3	1MV16IS004	Aditya Keshri	Danske-IT	9 Lakhs Per Annum
4	1MV16IS005	Amit	Accenture	3.5 Lakhs Per Annum
5	1MV16IS007	Ananya Pandey	Accenture	3.5 Lakhs Per Annum
6	1MV16IS008	Anas Jamil	Accenture	3.5Lakhs Per Annum
7	1MV16IS010	Ankur Kumar	Healthasystem Pvt Ltd	4.75Lakhs Per Annum
8	1MV16IS011	Anusha	Accenture	3.5Lakhs Per Annum
9	1MV16IS012	Arpan Gupta	Societe Generale	5Lakhs Per Annum
10	1MV16IS013	Arun Kumar	Microfocus	7.5Lakhs Per Annum
11	1MV16IS014	Asha .M.R	Accenture, TCS	4Lakhs Per Annum
12	1MV16IS015	Ashwini M S	FIS	5Lakhs Per Annum
13	1MV16IS018	Chakresh	Accenture	3.5Lakhs Per Annum
14	1MV16IS021	Hrishikesh Verma	Accenture	3.5Lakhs Per Annum
15	1MV16IS024	Kishan Kumar Jha	Mu Sigma, Accenture, TCS	5Lakhs Per Annum
16	1MV16IS025	Komal K Nalige	Accenture	3.5Lakhs Per Annum
17	1MV16IS026	Kruthika Dinesh	Target, TCS	10Lakhs Per Annum
18	1MV16IS027	Lakshmi saai rasazna konagalla	Altran, TCS, Microfocus and Mu-Sigma	7Lakhs Per Annum
19	1MV16IS028	Manju Kogunde K B	Altran, Accenture	3.5Lakhs Per Annum
20	1MV16IS030	Megha s kencha reddy	Accenture	3.5Lakhs Per Annum
21	1MV16IS031	Mohammed zain badal	Accenture	3.5Lakhs Per Annum

22	1MV16IS034	Noel Charlie	Accenture	6.5Lakhs Per Annum
23	1MV16IS035	P Abhijit Nelli	Ernest and Young	4.25Lakhs Per Annum
24	1MV16IS036	Pratheek Rao A	Accenture	3.5Lakhs Per Annum
25	1MV16IS037	Praveen V	Accenture	4Lakhs Per Annum
26	1MV16IS038	Preethi P	Target	7Lakhs Per Annum
27	1MV16IS039	Puja Kedia	Aricent, Accenture, E and Y, Temenos	4.25Lakhs Per Annum
28	1MV16IS040	R.Bharath kumar	Accenture	4Lakhs Per Annum
29	1MV16IS042	Reethika p	E and Y, Temenos	3.5Lakhs Per Annum
30	1MV16IS044	Sanjana cholaraju	Infosys	4Lakhs Per Annum
31	1MV16IS045	Sanjana dwivedi	accenture	3.5Lakhs Per Annum
32	1MV16IS046	Satwik hegde	Accenture, TCS	4Lakhs Per Annum
33	1MV16IS047	Saurabh singh	Accenture	3.5Lakhs Per Annum
34	1MV16IS048	Sekhar kumar jha	Accenture	6.65Lakhs Per Annum
35	1MV16IS049	Shahan khan	Accenture	3.5Lakhs Per Annum
36	1MV16IS050	Shalini R	Altran, Accenture, and Temenos	7Lakhs Per Annum
37	1MV16IS052	Shubham kumar	TCS	4Lakhs Per Annum
38	1MV16IS053	Sneh shekhar	TCS	4Lakhs Per Annum
39	1MV16IS054	Somashekar v	Temenos	6.16Lakhs Per Annum
40	1MV16IS056	Sumeet m jogdanker	Infosys	4Lakhs Per Annum
41	1MV16IS057	Sushma fouzdar	Accenture and Altran	5.5Lakhs Per Annum
42	1MV16IS058	Sushmitha m	Accenture	4Lakhs Per Annum
43	1MV16IS060	Vimarsha c r	Accenture	3.5Lakhs Per Annum
44	1MV16IS061	Yash gupta	TCS, Accenture and Temenos	7 Lakhs Per Annum
45	1MV16IS062	Yashaswini ashok	Accenture	3.5Lakhs Per Annum

46	1MV16IS063	Swapnil shikhar	Accenture and TCS	3.5Lakhs Per Annum
47	1MV16IS066	Raunak narayan	Moonraaft Innovation Labs	6.6Lakhs Per Annum
48	1MV16IS410	Suma.h	Infidata Tech	4Lakhs Per Annum
49	1MV16IS003	Chandana N	Wipro	3lakhs per annum
50	1MV16IS043	Rennith Abram	Higher Studies	
51	IMV16IS002	Abay Bajaj	Accenture	4.5 Lakhs Per Annum
52	1MV16IS016	Avinash kumar	Stylumia .AI	12Lakhs Per Annum
53	1MV16IS019	Dhruvika gautham	Cap Gemini	4 Lakhs Per Annum
54	1MV16IS023	Jhanavi Devi	Cap Gemini	4 Lakhs Per Annum
55	1MV16IS017	Bharath	Work Hubs Solutions	2.16 Lakhs per Annum

07. Editorial Committee

Chief Editor: Dr. P. Vijaya Karthik – Professor and HOD.

STAFF Editorial committee Members:
Dr. S N Sheshappa Associate Professor
Dr. C H Vanipriya
Mrs. Rashmi Amardeep Associatr Professor
Mr. Raghav S Associate Professor
Mr. Vijay Kumar Asst. Professor

Student Editorial Committee Members
Charesh Nayak
Manju Kogunde
Pavan Hegde
Neha Devathraj
Mrudula
Manjunatha B K
Reethika P

THE EDITORIAL BOARD

MISSING

MISSING

Led by:
Mrs.Rashmi Amardeep

Members:
Chakresh Nayak
Manju Kogunde
Pavan Hegde
Neha Devathraj
Mrudula
Manjunath B.K
Reethika.P
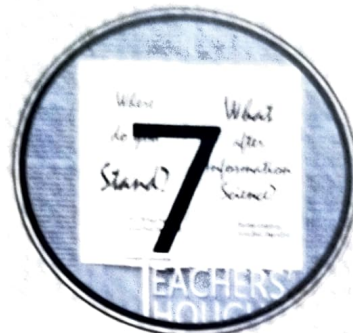
DEPARTMENT OF SCIENCE

MESSAGE FROM THE PRINCIPAL

"Its a proud moment for me to congratulate the Department of Information Science and Engineering for its great initiative in bringing out its magazine **INFOSPARKS-2019**. This endeavor my encourage all, to work with new spirt and passion and to strive to achieve excellence in whatever we undertake as professionals. As we all know a magazine reflects a department's vision and mission. It also highlights events, activities and academic process and achievements. I do hope this magazine encourages many more including the students and staff to use it as a platform to express the creativity and I hope that the department will excel with its exuberant achievements and research activities in the coming days. I sincerely hope that this edition makes for an interesting read.

Dr. V.R. Manjunath
Principal, Sir MVIT

VISION

To create a center for imparting technical education and conducting research at the cutting edge of technology to meet the current and future challenges of computer science field.

01
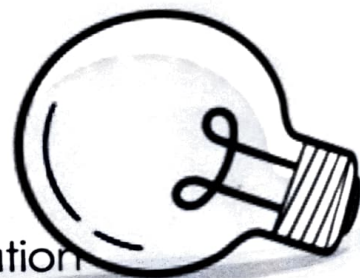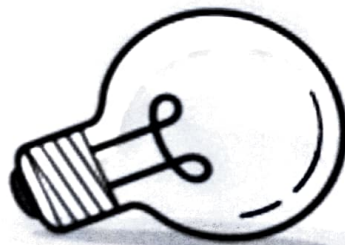
INFORMATION & ENGG.

MESSAGE FROM THE HOD

It gives me immense pleasure that our Department is releasing a Magazine "**INFOSPARKS -2019**" during the Month of April 2019.

With the mission of **Disciplined and integrated Development of personality through Academic Excellence, sports and cultural Activities**, it is pleasing to see that our Department has grown in great strength and is being recognized as a hub for academic excellence. I wish our ISE Department flourishes in all dimensions in the years to come.

My best wishes to the editorial Team of "Infosparks-2019", co-ordinated by Mrs.Rashmi Amardeep which is going to document the academic and other achievements and serve as a launch vehicle for creative expression of the students of our Department. I sincerely thank all the student and staff members who have submitted the creative articles for our Department Magazine "**Infosparks-2019**".

Dr.P.Vijayakarthik
Proffessor and Head of the Dept.

MISSION

To recognize education and research in close interaction with industry with emphasis on the development of leadership qualities in the young men and women entering portals of the institute with sensitivity to social development.

02

What is Ethical Hacking?

Some call them white hat hackers, others use the term legal hackers, and still others refer to them as pentesters. All of them mean the same thing: A hacker that helps organizations uncover security issues with the goal of preventing those security flaws from being exploited. The idea behind ethical hacking is to pay the 'good guys' to find any holes the 'bad guys' would, before they can get to them.

Ethical hackers use penetration testing and other, mostly offensive, techniques to probe an organisation's networks, systems and applications. In essence, ethical hackers use the same techniques, tools, and methods that malicious hackers use to find real vulnerabilities – only in this case, they report them back to the organization for remediation…and a paycheck.

Why Use Ethical Hacking?

They say the best defense is a great offense – and with application security, that's certainly a big factor in staying ahead of the hackers. Organizations keen on keeping malicious hackers out of their systems will use any number of offensive measures as a way to find the kinds of holes attackers could use against them. Penetration testing, among other forms of offensive security, is perfect for the job – and ethical hacking has become an important part of an organization's security program.

Strong application security programs need to focus both on the code security as it's being developed, as well as in its' running state – and that's where ethical hacking comes into play. Nothing can beat secure coding from the get-go, but mistakes do happen along the way, and that's where ethical hacking experts can really make a difference in an organization.

Variations of ethical hacking techniques could even involve social engineering ploys to test the security awareness of the organization's employees. These ethical hacking techniques include leaving potentially malicious USB's in common areas, trying to engage employees in phishing attacks through email, or even posing as someone who needs access to sensitive areas, just to see how far they can get.

Whether by using automated tools, like the ones we'll list below, or through more sneaky methods, ethical hackers can help significantly in finding any holes in the organization's physical and virtual security protections, so they can fix the issues, enabling customers and the business to continue working securely.

-PAVAN HEGDE
GANESH
HARSHITH

How to Get Started with Ethical Hacking:

Understand basic security concepts and techniques

Before setting out to choose a tool set, it's a good idea to become very familiar, if you're not already, with basic information security concepts, and deeper into more specific areas like network security and application security. Getting the basics under your belt will help give you a foundation on which to build out your wider skill set. If you don't have IT security experience, you will most likely need to earn a certification.

Ethical hacking is a big undertaking, so starting with a solid base is essential – don't skimp on the basics. Keep in mind that the companies hiring you will want to know you understand the business imperatives of what you're doing, so either a certification or degree are more likely to get you noticed.

What resources are available for ethical hackers? For web application security, start with OWASP. They offer a fantastic set of resources for web app testing, which you can find here, and have a supportive community and chapters worldwide. Find your closest chapter here. For ethical hacking guidance, a great place to turn is toolswatch.org, run by Nabil Ouchn (@toolswatch), which offers free resources on security practices, hacking tools, and other news and trends.

Strengthen your security education with defense and attack practice

Once you have a solid understanding of security concepts and hacking techniques, the next step is to turn theory into practice. The cliche practice makes perfect fits all too well here, because only with enough practice attacking and defending increasingly difficult scenarios will you become a professional ethical hacker.

Choose your tools:

After you've gotten a solid security education and an understanding of the defense and offense techniques for fending off would be attackers – and finding the holes they would have used to get in – it's time to choose your tool set.

LICENSE TO HACK

5-G Communication technology challenges

1. Frequency Bands

Now the Current LTE system operates with more than 50 frequency bands which are below 3.6 GHz range. One of the frequency candidates for early deployment of 5G is sub-6\ GHz range. Unlicensed spectrum below 6 GHz (600 MHz and between 3.5 GHz and 6 GHz) will be used for first generation of 5G networks. 5G - New Radio standard for 5G networks are set of frequency bands at sub-6 GHz range and millimetre waves of the RF spectrum. The Biggest challenge is Designing of new hardware at millimetre waves are much complex than low frequency range. That is why the JIO is not investing on Hardware for 5G Communications till date. Because they have invested heavily on implementing 4G Communications.

2. Huge Data Volume

Nowadays the technology increases the Bandwidth and the data volume of each network also increases every year. Each network has to support huge volume of data since many applications capable of Video Streaming applications like HD video calling, live streaming, downloading etc...

3. Complex MIMO Technology Antenna

Complex MIMO antenna arrays will be used to very high speed data to individual users. The idea of MIMO is to increase number of transmitting antennas at the base station and mobile device (UE) to maximize the data transfer by simultaneously sending and receiving. MIMO technology requires complex algorithms and device capability at both base station and user equipment. This is a serious challenge

4. Beam Forming

In order to avoid Transmission power wastage, new generation wireless transmission. Technology will use beam forming method to efficiently transmit data to user devices. Compared to conventional base stations, beam forming Technology will locate the user's location precisely and transmit signals to that direction using sophisticated antenna array system.

5. Ultra Reliability Network

Emergency services and application requires highly reliable network to immediately trigger warning during critical situations. Health monitoring devices, remote patient care devices, fire and rescue services, Police, and ambulance services etc... requires wireless network to communicate either self activation from devices or initiated by users.

Dr.P.Vijayakarthik, HOD - ISE Dept.
Mrs.C.Padmini, Asst.Professor, ISE Dept.

RUBY ON RAILS

WHAT IS RUBY ON RAILS?

We have attended an all women Ruby on rails event held in Bangalore. Lets first get into what Ruby is all about. Ruby is dynamic, interpreted, reflective, object oriented, general purpose programming language. It was designed and developed in the mid-1990s by Yukhiro "Martz" Matsumotu in Japan. According to the creator, Ruby was influenced by Pearl, Smalltalk, Eiffel, Ada and Lisp. It supports multiple programming paradigms, including functional, object oriented and imperative. Ruby on rails is a server side web application framework written in Ruby under the MIT license. Rails is a model viewer controller(MVC) framework, providing default structure for a database, web service and web pages. It encourages and facilitates the use of web standards such as JSON or XML for data transfer, HTML, CSS and JavaScript for user interfacing. Its emergence in the 2000s greatly influenced web app development, through innovative features such as seamless database table creations, migrations and scafolding of views to enable rapid application development.

TOOLS USED AND IMPLEMENTATIONS

It was amazing to have a hand on experience on working with Ruby on rails. We are completely new to Ruby so we made this simple quiz web application on Ruby. We use HTML, CSS(Bootstrap library) and JavaScript to build our web application. We use the atom text editor for writing our code. We have also used Ruby scafolding, with the scafold action, rails generate all the code it needs dynamically. That makes it really easy for the user to quickly go through the code and tailor it according to their own requirements. Finally we are able to build our quiz application.

LESSONS WE TOOK BACK HOME WITH US

When we first heard that there was going to be an all women Ruby on rails event to be held in Bangalore, we were more than happy! We had never worked with Ruby before and this was our chance to start in a great way. Of course, impostor side of us kept saying that we were not good enough to apply for it, but we gathered up all our courage and finally applied. The 9th of march, 2019 arrived and we had to reach GetSimpl Tech in Indiranagar who had provided their office space to conduct this event smoothly. We connected instantly with our team members and met the mentors of our team. All the neccessary installations were done and the mentors gave us a brief introduction of Ruby. We actually made a running web application! The participants were a diverse group consisting of both students and professionals with varied skills and experience. It was a fantastic introduction to web development and not to forget, the amazing food and cool stickers. There is always something new we learn if we interact with others. Team work is the key to the overall success of the team. No matter how hard you try to ignore your fears, they will always be there. Its upto us to decide what we want to do with them. Communication is the key. If you are a good coder but can't explain your code, then its your loss. Believe in yourself, your capabilities and your work. And lastly enjoy the process. Its now or never so make the most of it. Workshops, hackathons and meetups must be attended beacause they give us exposure, knowledge and experience.

RUCHIKA JAIN
SHRUTHI SHUKLA
SIMRAN
SOMBOLA FATHIMA

TechHub-Let's grow together

"The only thing to do with good knowledge is to pass it on; it is never of any use to oneself". This quote forms the basis of our Sir MVIT's educational society TechHub. Everything began with a thought of helping each other in order to develop and enhance our technical skills by making a group. Initially 5 students together started learning from "coursera.org" and in couple of weeks there was tremendous up-liftment in the approach for solving problems in a team.

The team felt the need to expand this little study group amongst classmates to avail the advantages. We approached and discussed the idea with them. The fact that studying together increased our learning potential and helped us push our limits was very well received by others. We had a head count of 40 now, and we started learning from "free-codecamp.org" together, where we were awarded daily XP for solving problems and making progress in the course. This created a very healthy competitive environment within the group. We then started solving programming challenges on a daily basis.

Nevertheless, this idea gave birth to a group called TECH HUB. We are a family of more than 250 members together with students from 1st, 2nd & 3rd year. Our focus has primarily been on Improving problem-solving skills as well as increasing our potency.

How we work?

We have successfully been able to achieve better results in our problem solving skills by solving one programming question daily. Every day a question is posted on our website "https://techhub.pro", members solves this question on the online platform. Later at night, we post our solutions in our "WhatsApp" group and discuss the different approaches.

TechHub operates at three different levels namely:

TechHub Junior: For beginners in programming language.
TechHub: People with basics of programming and can write programs to solve a given problem.
TechHub Data Science: We have recently started with Data Science where we learn Data Science and implement on Kaggle.

A few noteworthy achievements:

1. TechHub connected to online coding contests with more than 70 contestants in each contest.
2. We have our own Integrated Development Environment (IDE) consisting of more than 60 languages to code in.

AVINASH
ADITYA KESHRI
SWAPNIL
HRISHIKESH
ARUN PRAJAPATI

who do land a job at the end of their degree have complained about how stagnated they feel, being stuck at the entry-level salary and status and how there is seldom any growth. After a couple of years of being in that bleak state of career, a lot of them look for alternatives, mostly seeking a masters degree abroad.

I started joining the dots to see why this might be happening. Lack of skill set? Not possible. Most of the students who've complained about the feeling of being stuck are brilliant. I've personally taught them and can vouch for their smartness. Don't get me wrong, I'm not against students seeking a masters degree by choice, just the ones who feel the need to get an MS degree to set their career in the right path while this could very well be done during your bachelors itself.

So, I've put together a few things, which I think will make a difference in what you become after your graduation. First and foremost, academics are very important but not solely important. What I mean is that, while I expect my students to be on par with the concepts covered in the syllabus, you have to realize that the syllabus is only a small part of being ready for the industry out there. You have to get out of there, explore various tech stacks, attend events, socialize with knowledgeable people from the tech industry, participate in hackathons, publish academic papers, work on hobby projects, all of which would add so much weight to your resume. Every generic engineering student will have the subjects, final year project and all the mandatory things listed on their resume, when presenting it at the placements interview, more so with Indian being predominantly an engineering-as-a-career focused country.

Only doing things that are not mandatory, prove that you like to take on challenges and try new things, those are what will make your resume stand out. This will not only give your growing career a head start but also serve as a great basis for your masters, if you were ever to do one, by choice.

Where do you Stand?

-Dr. C.H Vanipriya,
Assoc Prof., Dept. of ISE

What after Information Science?

-Rashmi Amardeep,
Assoc Prof., Dept. of ISE

Information technology is changing the way we learn and communicate and how and in what arenas we compete. Indian Information technology industry is growing at a faster pace and this industry has the highest contribution to the economic development of the country. As per the report released by IBEF, India is likely to double to reach US$ 250 billion by 2020, growing to 7.5 per cent of gross domestic product (GDP). Such staggering numbers are a proof of the growing demand for IT professionals in various industries. For an IT engineer, there are infinite opportunities and industries in which they can venture for the jobs.

Few avenues in which graduates can make their career shine:

Government Sector : In the government sector, there are various departments that require IT professionals. With digitisation in the Indian economy, all the PSUs and organisations require IT engineers to maintain their highly confidential data and protect it from the unforeseen threats. So joining government sector is a lucrative option as it comes with its own perks of job security and consistent salary increment.

E-commerce Industry: companies have flooded the market and the tech-savvy consumer(s) are increasing goods online. This e-commerce boom is a bright opportunity for IT engineers to grab jobs e-commerce giants to earn decent remuneration.

Telecommunications: The subscriber base has grown manifolds in the past decade and with the emergence of low tariff plans, the requirement to manage the systems has also grown. IT engineers are the right people to deal with the issues of this industry.

Biotechnology Industry: Scientists, researchers, big corporate houses, often engage in experimentations that are now-a-days done in digital mode. The need of IT engineers in this industry is also becoming vital due to change in the mode of operations that have now become digital.

Higher Education: IT engineers can also pursue teaching professions and can choose to teach students at University level. This will help them expand their horizon in terms of the guidance required by the future generation of our country.

If along with the technical skills of your profession, develop the communication skills to share and work with nontechnical people, you will have a special sauce that can be a major factor in your long-term your success.

Top 10 Indian IT Firms to work: TCS, Mind tree, Mphasis, NIIT Technologies, Infosys, IGATE, CMC Ltd, Wipro Ltd, Tech Mahindra, HCL Technologies Ltd.

Dream Big, Sparkle More,
Shine Bright.

CHERS'
UGHTS

THE WALKING
GOD

Generations of doctors, engineers, teachers, businessmen and working professionals from various fields remember Shivakumara Swami, the seer of Siddaganga mutt who passed away on 21st of january this year, as a champion of the downtrodden. At a time when higher education was beyond the reach of the poor and underprivileged, the seer strove to make it accessible to those in need, irrespective of their religion and caste. People revered him as 'Trividha Dasohi' — the one who provided education, food, and spiritual guidance.

Dr. Shivakumara Swami, popularly known as 'Nadedaduva Devaru' (Walking God), was initiated into Viraktha Ashrama in 1930. Before becoming a seer, he was called Shivanna. He was born on April 1, 1908, at Veerapura in Magadi taluk of Ramanagaram district. He completed his primary education at the rural anglo-vernacular school in Nagavalli and graduated from the government high school in Tumakuru in 1927. He then enrolled at Central College, Bangalore University, where he studied physics and mathematics as optional subjects, but was unable to get his degree as he was made the successor of Uddana Shivayogi Swami in 1930.

In 1941, at the age of 33, he assumed full responsibility of the mutt. At the time, the Gurukula had a student strength of 200 and was struggling for resources.

Undeterred by the odds, the young seer went with his 'jolige' to villages on foot to collect foodgrains and vegetables from people to feed the hungry at the mutt. Farmers and others were generous in their donation of funds, foodgrains, vegetables and fruits — a tradition that continues to this day.

For more than 50 years, he instructed students and taught them English. "As many students were from rural areas, they were not familiar with the language. The seer would hold special classes from 6 a.m. to 7 a.m. for class 10 students," said Dr. Channabasappa. Former students remember the seer's insistence that they learn to spell correctly. Many former students recall instances of the seer stepping in to help them financially to continue their education. "He looked after me for 12 years and paid my college fees," said B. Rajashekaraiah, an ex-serviceman. "He gave me ₹300 when I was selected for military training in 1984 and had to go to Lucknow."
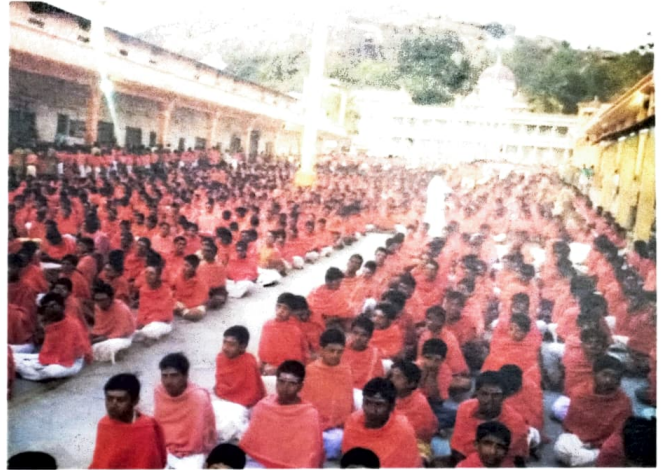
Though students often left the mutt for other cities, their ties to it remained strong. C.T. Kallaiah, Deputy Director of the PU Board, Raichur, resided in the mutt from 1975 to 1983. "I did my B. Com in Tumakuru and then went to Gulbarga (now Kalaburagi) for M. Com. My parents were very poor and the seer would send me ₹500 every month through money order. This way, I was able to get my degree," he said.

Today, more than 8,000 students are given food, accommodation and education, irrespective of their religion, caste and creed, at the mutt. Pilgrims and visitors are served food for free at the mutt.

On his centenary in 2007, the Government of Karnataka awarded Swami the prestigious Karnataka Ratna award, the highest civilian award of the state. In 2015 the Government of India awarded him the Padma Bhushan. But how can we award an award? Yes, he was the biggest award humanity could get, to show , to put some belief that humanity still exists. And giving this man or rather, giving this god an award would only increase the value of the award but not his.

Even in the last few moments of his life, he didn't stop serving. He had told his successor Siddalinga Swamy to make sure that he announces swamiji's demise only after the children have had their lunch. No human could be this humane, that's why he was the WALKING GOD

Friendship is 2 am texts, long distance calls and snap streaks. We can't wait to tell our best friends about what we had for breakfast this morning, or what our plans for lunch are. We can't wait to show them our outfit of the day or want to hear what they say. We can't stop playing multiplayer games with our crazy friends! #SquadGoals. We like hashtags, and challenges.

The rule is, if it's not on your story, it never happened. We constantly restrain the urge to enjoy the moment and push ourselves to capture it instead. "It's for a lifetime", we lie to ourselves.
Never before has a generation so diligently recorded themselves accomplishing so little.
We think Love is cute posts on Instagram with the fake candids and the catchy captions. We set unrealistic expectations for ourselves based on the skewed portrayals of celebrity lives. We need constant validation and surround ourselves with people who feed us lies.

We constantly feel the need for attention and instead of human interaction, we find it in the fact that people are concerned when you leave a social platform. We are in touch with everyone, all the time and yet we romanticize depression. We feel alone. And what do we do about it? We find solace in memes. Or at least, believe that we do.

FIND YOURSELF

We find our parents and grandparents struggling with technology adorable! Do they feel the same? Do they look at us struggling with life and find it adorable? Or do they pity us? For technology has made our life simpler, but also has dumbed us down to puppets in our own hands, dancing with the tap on our keyboards. We realize this, and we complain. We write poems about books and stars and everything in between them. And then we put them up on Instagram and feel insecure about the number of likes we get.

We are hypocrites, and we take pride in it. I know we cannot live in a world devoid of technology, we cannot even imagine that. But the least we can do is to live. Do not let technology drain the life out of you. Ask your grandparents about the constellations before you decide to look them up on Google. Sing to the kids around you before you give them a phone playing songs on YouTube. Go out and play with your friends, eat with them, for real instead of playing for Virtual chicken dinner.

Technology has connected us, but at what cost? Do not limit human emotions to time, effort and connectivity. And worse still, do not reduce them down, to technology.
Technology hasn't taken away our jobs.
It's has taken away us, from us.
Don't you think it's time to find ourselves again?

"Don't use social media to impress people, use it to impact people"

ARTICLE BY :
SUSHMA FOUZDAR

11

TIME TO RHYME

Notions of Beauty
-by Simran Raj

Non Rapunzel tresses, trimmed to her nose.
Untamed blunt lids, revealing those passionate eyes.
Bouncy belly.
Leg hair she didn't care.
Skinny thighs holding confidence.
Her brown skin gleaming with shimmer.
Non curvy waist flaunting uncanny strech marks.
Queer dark mole hiding her left brow.
A soulful melody echoed as she lilted.
Her goodness infused in air
A happy vibe she'd spread.
No divine features, no fairy tale.
Yet she was beauty.
Breaking stereotypes,
Her mysterious smile:')

Obviating the Anxiety Imbroglio
-by Shashwat Srivastava

On my bed I lay,
Pondering about all day
I find myself in dire straits,
There is no way the pain alleviates.
Confusion is much and deep,
Horizon is far beyond reach.
My mind fills with umpteen fears,
The eyes get soaked up with tears.
But even though i may be frail,
Won't let my visage get anymore pale.
I cleanse my mind from all the nihilism,
And reinvigorate it with optimism.
As nonchalant we all must be,
No matter how adverse the circumstances turn out to be.

Woman
-by Aditi Prachi

She is a phenomenal woman,
Beautifully woven.
She sacrifices a lot,
Even if they consider her a blot.
She is judged everytime,
She is there for you anytime.
She can be your biggest support,
If you do not abort.
Her love will be unconditional,
Even if you are conditional.
Yeah she is delicate,
But never consider her enervate.
She knows how to give,
Without any mischief.
She knows how to respect,
Even if you suspect.
She is a phenomenal woman,
Beautifully woven.

To Find Yourself
-by Aditi Prachi

To find yourself
Just sit in Peace,
To find yourself
Collect your piece.

To find yourself
Decrease your Pace,
To find yourself
Just read your Face.

To find yourself
Do not Pretend,
To find yourself
Do not Pre end

To find yourself
Do not Underestimate,
To find yourself
Just Check & Mate

12

INNOVATION YARD

Seeing With Your Tongue

Neuroscientist Paul Bach-y-Rita hypothesized in the 1960s that "we see with our brains not our eyes." Now, a new device trades on that thinking and aims to partially restore the experience of vision for the blind and visually impaired by relying on the nerves on the tongue's surface to send light signals to the brain.

The BrainPort consists of two parts: the band on his brow supports a tiny video camera; connected to this by a cable is a postage-stamp-size white plastic lollipop, which he holds in his mouth. The camera feed is reduced in resolution to a grid of four hundred gray-scale pixels, transmitted to his tongue via a corresponding grid of four hundred tiny electrodes on the lollipop. Dark pixels provide a strong shock; lighter pixels merely tingle.
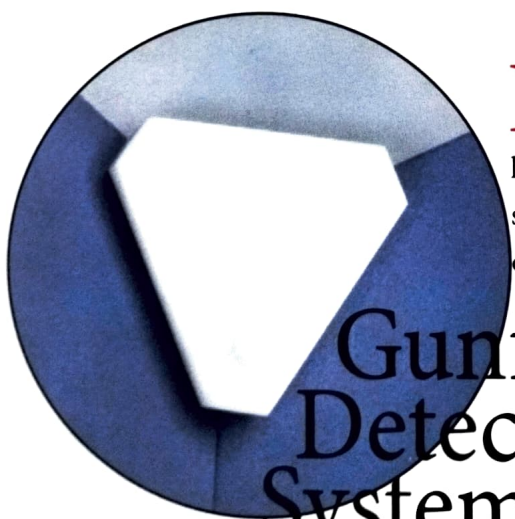
Gunfire Detection System

Florida-based startup Safe Zone has launched the Safe Zone Gunfire Detector, an affordable gunfire detection system that has the ability to respond to an active shooter situation within 10 seconds. It takes an average of five minutes for police to be notified of an active shooter situation by someone on scene.

Safe Zone utilizes the latest wi-fi communication and cloud-based machine learning technologies to instantly send and analyze data that returns usable information to local law enforcement and on-site administrators in seconds. The system can determine the location of shots fired, the number of shots, and the type and caliber of gun being used. Within seconds of the trigger pull, an alert is sent to local law enforcement. The system analyzes more than 3,000 datapoints in each record. False alarms like car backfires, firecrackers or balloons popping are filtered out through their distinct acoustic signatures. Safe Zone president Mike Anderson said, "We are living in a time where active shooters are a real concern for everyday citizens conducting normal business. Shooters tend to continue assaults until confronted, so helping law enforcement to locate shooters up to 17 minutes faster could save countless lives. That's why we designed the Safe Zone Gunfire Detector to be as affordable and fast as possible."

Mixed reality glasses can be used to take what you're seeing of the real world and overlay it with virtual content. At CES 2019, Nreal, a Chinese start-up, showed off a pair that almost looks like normal glasses you could wear on the street. Nreal's ready-to-wear light glasses are designed to give

NREAL LIGHT MIXED REALITY LENS

wearers an immersive with spatial sound, voice control, and a widescreen display at 1080p—without the bulky headset.

Tower cleans outdoor air. It is a 7m high structure that removes ultra fine particles from the air using the patented ion techonolgy developed by scientists at delft university of technology. Air from the area surrounding the tower is drawn into the structure. All aiborne particles recieve electric charge. The charged particles are captured and accumulated on large collector plates that has an opposite electric charge. The clean air is then blown from the tower back into the environment. This technology could potentially be used in cities like Delhi to make life a little better.

TOWER THAT CLEANS AIR
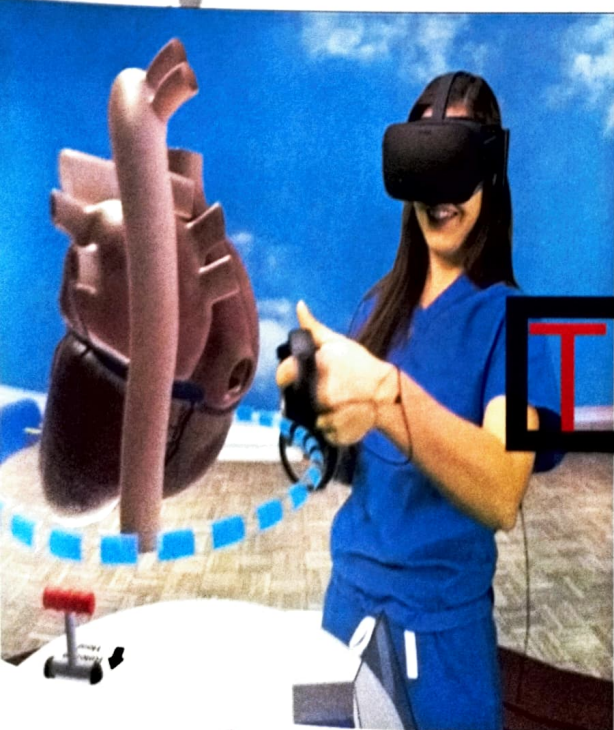
Pediatric cardiologists at Lucile Packard Children's Hospital Stanford are using immersive virtual reality (VR) technology to explain complex congenital heart defects, which are some of the most difficult medical conditions to teach and understand. The Stanford Virtual Heart experience helps families understand their child's heart condition by employing a new kind of interactive visualization that goes far beyond diagrams, plastic models and hand-drawn sketches.

THE STANFORD VIRTUAL HEART

For medical trainees, it provides an immersive and engaging new way to learn about more than 20 of the most common and complex congenital heart anomalies by allowing them to inspect and manipulate the affected heart, walk around inside it to see how blood is flowing, and watch how a particular defect interferes with the heart's normal function.

THE TALE OF BRAVERY

"Lost people matter to God, so they should ...ter to us."

Under almost 30 feet of ice, all that Lance Naik Hanumanthappa had going for him was a small air pocket and a lot of grit. Outside, a group of well-trained Army men, two dogs, a small team of medical professionals and military pilots carried out a relentless, almost death-defying rescue act at over 19,500 feet, on a snow mountain where temperature dropped to as low as -55 degrees.

Details of the rescue operation that brought Hanumanthappa out alive after five days is already the stuff of legends. A small band of men refused to give up on their lost comrades and cut through ice walls that were harder than concrete. The Army and the Air Force between them flew over 200 sorties to rush deep penetration radars, radio signal detectors and rock drills to get to the 10 soldiers who were buried under the snow.

"The rescue of Lance Naik Hanumanthappa personified the triumph of indomitable spirit of human resilience against all odds, including the mighty nature, and the determination of man to never give up on his fellow men," an officer involved in the rescue told his friends in a small note. Though the avalanche stuck early on February 3 , its ferocity and the extent of damage it caused at 19,600 feet became apparent only after the first helicopter sortie by the Air Force.

Soon, personnel from the Army Mountaineering Institute and Siachen Scouts were moved in. "The Base Camp was not equipped to handle a situation of that magnitude. So men and resources were quickly requisitioned from all around," said a soldier.

At almost 20,000 feet, working round the clock is near impossible. So at a given time, a group of about 20 men went to work. "They worked for 30 minutes and took rest and occasionally some of them were brought down to lower altitudes," said an officer. Troops from 19 Madras, Ladakh Scouts and the Siachen Battle School were part of the operation.

Once Lance Naik Hanumanthappa was located on the evening of February 8, a doctor on the spot stabilised him and kept him alive all night as evacuation could be done only the next morning. At first light on Tuesday, he was airlifted in an army helicopter.

"The pilots had dared to fly in the middle of a snow blizzard through narrow mountain features, inching forward despite all the turbulence and extremely poor visibility (at top barely 60-70m initially). They finally made a successful landing at the makeshift helipad, which was only a little bigger than the helicopter itself," one of the officers involved in the rescue said.

When a soldier dies, he takes a part of everyone he loves - his mother, father, wife, sister, brother. And it's not just the families, the nation also mourns the death of its soldiers. Everyone knows how soldiers lead a really tough life: living in adverse conditions like minus 50 degrees Celsius or 49 degrees Celsius temperatures, living away from families and guarding the borders. They don't complain about anything and that is what makes them a celebrated soldier of a country!

Expressing the grief of a soldier, this poem which is penned down itself by a soldier talks about how the life of his loved ones should be after he's not around and how he should have his gun and medals on his chest when he comes home wrapped up in the tricolour.

And the pain, the agony through which the families go is just inexpressible! Here's the poem that throws light on the tough life of a soldier:
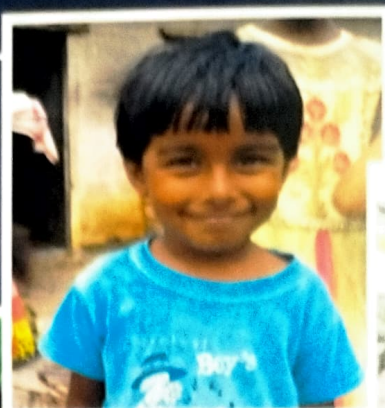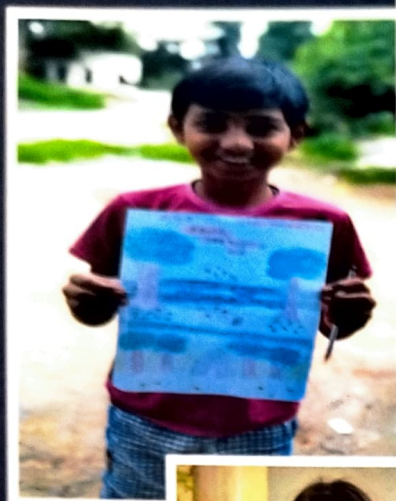
THANK YOU, SOLDIERS!
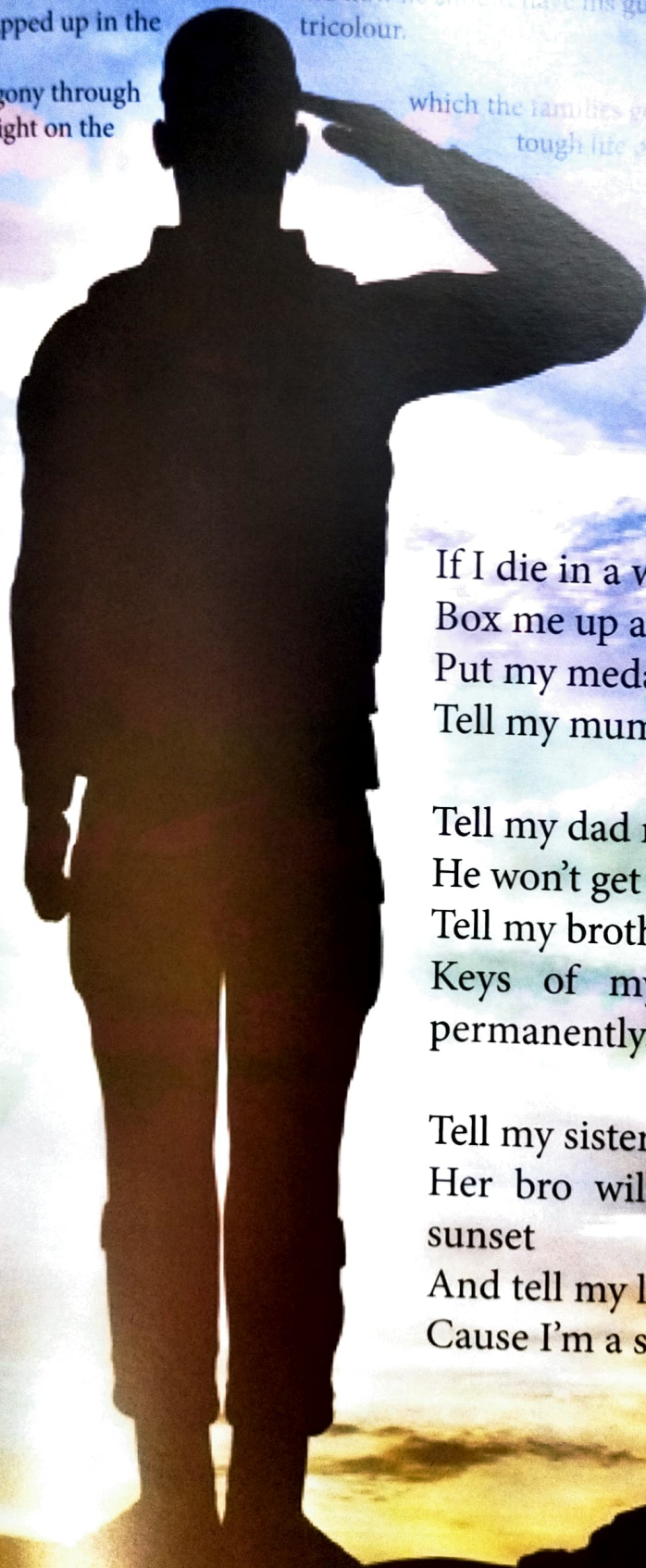
If I die in a war zone,
Box me up and send me home.
Put my medals on my chest,
Tell my mum I did my best

Tell my dad not to bow,
He won't get tension from me now
Tell my brother to study perfectly,
Keys of my bike will be his permanently.

Tell my sister not to be upset,
Her bro will not raise after the sunset
And tell my love not to cry,
Cause I'm a soldier, born to die..!
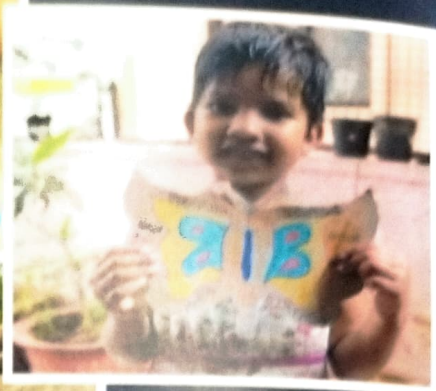
ABHIKALPANA
where we are paid in SMILES :)

Many feel, many think, many sympathize, but none act. What started as a whatsapp status group of 8 chose to act. What started as a whatsapp status is now a group of over 100 volunteers trying to be the change that they wish to bring in the society. The story of Abhikalpana is one of determination and perseverance.

It all started with a train journey, our founder president Mayank Sahu was getting back home after finishing his third semester exams. A little kid came upto him asking for alms. He asked the kid why he doesn't go to school. His reply was that he used to, but there were no teachers in his school anymore. When Mayank questioned him further, the boy yelled, "Even you are educated! why don't you guys teach us?". Thats when it struck him that the little boy's words were not so far from the truth. We, who are fortunate enough to be born in a family which could afford our studies never think about those who are unfortunate that their parents didn't have the financial stability to send them school.

As i said, many feel, many think, many sympathize, but none act. But Mayank Sahu chose to act, he knew that our college didn't have an NGO and decided to start one. He knew he couldn't possibly do it alone, he needed a team. He put up a status on his whatsApp messenger that, "Thinking of forming a college NGO. Interested people please reply". The response to the status was overwhelming and the journey of ABHIKALPANA began.

Initially, as they had no idea how to help, some of them started working with 'Child Rights and You' (CRY) - an Ngo that focuses on the overall development of the kids. They visited Orphanages and Anganvadis to teach the children there, and by the end of their fourth semester in college, they had a concrete plan in mind.

Now that they have the experience, they thought of helping the kinds in the underpreviliged areas around our college. While walking from Hunasamaranahalli to the college they could see lot of kids who were playing around or doing some work when their age was for them to be sent to school. It was time the little boy's question was answered. They decided to visit these places on every sundays and teach them something.

volunteers who wanted to devote their time for this work. Initially, they started their work in one area , where there were around 6 kids and none of them used to go to school. First they had to convince those children's parents to let the kids attend their sessions. After some convincing, they agreed and they started going there every sunday teaching them not only about academics but also about hygiene. Playing games was a routine and at the end the kids were given sweets. This is how Abhikalpana used to work.

after 3 years we call each area we operate as NESTS and NESTS as of now and we have over 100 children under our NGO. What started as a whatsApp a Registered Trust under Government of India. are ABHIKALPANA TRUST now. Now, we have three under ABHIKALPANA: SHINE, SMILE & SCREAM. Where SHINE deals with the regular sunday sessions in the 6 nests around our college, SMILE deals with us helping kids who are not so close to our college, this means we visit places outside our college area to help people in any way possible. SCREAM focuses on the teenage section of the society. It focuses on educating people against drug abuse, peer pressure, depression, suicidal thoughts ,etc. We also organise Medical camp for all the kids under our NGO anually to address their health issues. We have Summer Camps for them, we organise fundraisers in the college to collect funds for our smooth functioning.

Now, almost all kids go to school and that itself is a huge win for us. If someone asks me why I chose ABHIKALPANA and why I am so dedicated to help those kids, I usually use fancy sentances like "We should give something back to the society". But deep down i know that I chose ABHIKALPANA because it makes me happy. After a week full of college and stress, these kids and their smile is a source of happiness and positivity which fuels me through the next week. We do get salary for what we do, but we are paid with something better than money, the beautiful smiles of those innocent hearts.

Want some Smiles? Do join ABHIKALPANA.

- Manju Kogunde
ISE 3rd year

It all started as a social responsibility and today it is an integral part of my life. It has been more than three years being part of this venture and not only has it given me sweet memories but also a family away from home. We at Abhikalpana work to bring smile on the faces of those cute little souls, because their happy faces keeps us happy. I am grateful to work for such a positive change in the society and to be part of this ever loving family -ABHIKALPANA

Durgesh
president-ABHIKALPANA

LASTU BENCHINA PARTY NAMMADU

"Go and stand at the back of the class!", Said the teacher who couldn't stand our constant talking anymore and let's be fair that doesn't make a lot of difference. For the back of the class isn't very far from where we are, the back bench!

It's not that we aren't paying attention in class, most times we are. But when we're hungry, we don't believe in waiting for breaks!! We break the rules to feed ourselves, sharing the snack with all those around us and spreading joy in the process.

And there is a sense of unity when you look around, between the silent one next to the window who is probably listening to music under the hoodie and the crazy one at the corner who's throwing paper planes at the first benchers. And of course, what would the last bench be, without the cooperation and support of the people sitting in front of us.

The best part about being back benchers is the collective effort that we need to put when the exams are near, to counter all the time that we've wasted till then. But looking back at the fun that we've had, the bonds that we've built and the eternal mark that we've left on the last benches of our class, maybe it was the best use of time that we could have ever bargained for.
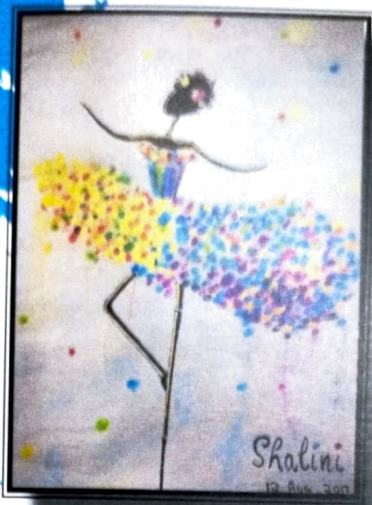

And to all the people looking at us and our unconventional methods, we would like to quote former Indian president, scientist and visionary Dr. A P J Abdul Kalam who said :

"The best brains of the nation may be found on the last benches of the classroom"
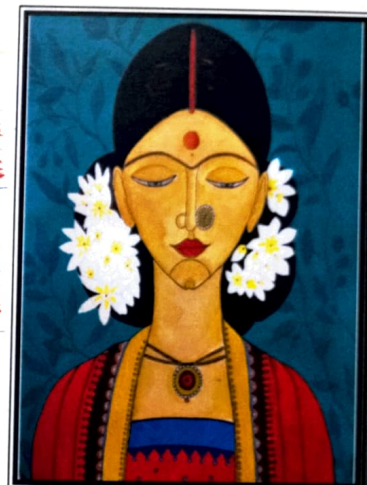
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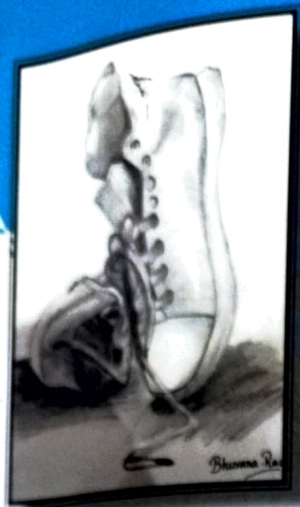
Bhuvana Rao

Shalini R

Shalini R

Art Gallery

Shalini R

Shalini R

Shalini R

Chakresh

SHEROES - Platform For Women

This app is your own safe, constructive and 'Me' space. This is YOUR space on the internet. No one here would judge you, criticise you mock you or patronise you, but will only understand you, guide you and let your personality and talent shine out making you a better and stronger woman than you are today.

MIMO : Learn To Code

Mimo creates a personalised curriculum of fun and effective exercises, projects, and challenges that fit into your daily routine and keeps you motivated. This way you can work learning to code into your daily routine, whenever you have a few minutes of downtime.

EVERY CIRCUIT

Build any circuit, tap play button, and watch dynamic voltage, current, and charge animations. This gives you insight into circuit operation like no equatio does. While simulation is running, adjust circuit parameters with analog knob, and the circuit responds to your actions in real time. You can even generate an arbitrary input signal with your finger!

MEESHO- Work From Home

Meesho App is used by women entrepreneurs, housewives, college students, shop and boutique owners, beauticians, wholesale traders, or anyone looking for part time job. We are the best zero investment app for women looking to work from home.

DOCSAPP - Contact Doctors Online 24 * 7

Docs app lets you ask your health or medical questions. Online doctor will be appointed to you in a minute. You have to pay doctor consultation fee, start chat or call with doctor, talk to doctor privately.
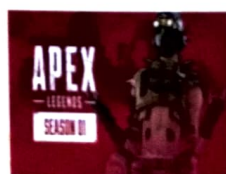
APEX LEGENDS

Conquer with character in Apex Legends, a free-to-play Battle Royale shooter game where legendary characters with powerful abilities team up to battle for fame and fortune on the fringes of the Frontier.

SAFE ZONE

GET TO THE

PLAYERUNKNOWN'S
BATTLEGROUNDS

I have just escaped from the others and I am halfway across the yard when the walls start closing in. A round electric field appears behind me, chasing at my heels as I run for my life. Having just escaped a group of enraged players back at the compound, I was now about to face my death from wounds slowly inflicted by the game itself. And all of that because I could not reach the safe zone that was marked by a white circle on the minimap in time. I ran and ran, but the electric field continued to follow me until it sapped the last remains of my strength...At least it was an interesting way to end this round of the game.

This is **PLAYERUNKNOWN'S BATTLEGROUNDS (PUBG).**

PUBG's central premise is a simple one to follow. The game starts with 100 players being dropped from an airplane onto an island with the sole purpose of being the last man standing. The gameplay is extremely competitive as players do not start with any equipment, so they need to search for supplies in buildings or from players they have killed. They must travel to safe zones indicated by a white circle that gets progressively smaller and harder to reach as the game unfolds.

The short duration of the game keeps it exciting and is a good way to relieve stress. With its realistic features, the game helps users get comfortable in no time, providing quick navigation and orientation that is vital for success in the game. By using transitions and animations, the UI delivers a smooth player experience.

Everyone loves to play it. Celebrities, Youtubers, college and school students all are playing it. PubG game has both good effect and side effects or negative side effects on health, education, career on people's life. Are there any benefits of playing PubG as well? How does it affect our mind in peositive or negative way?

Positives? Many scientists and psychologists find that video games can actually have many benefits – the main one is making people smart. "Video games change your brain," according to University of Wisconsin psychologist C. Shawn Green. Playing games alter the brain's physiological structure in the same manner as do learning to read, navigating using a map, or playing the piano. Much like exercise can build muscle, the effective combination of concentration and rewarding surges of neurotransmitters like dopamine strengthen neural circuits which can build the brain.

Negatives? Most of the bad effects of video games are blamed on the violence they contain. That's what people says about PubG as well. Children who play more violent video games are more likely to have increased aggressive thoughts, emotions, and behaviors, and decreased helping others. Addicted people also exhibit social phobias. Playing the game too much keeps you constantly busy. You may become socially isolated. You may have less sleep. Also, you may spend less time on other activities such as doing reading, sports, interacting with the family and friends and also sometimes not concentrating on your career as well.

So, are we really into the SAFEZONE ??

PARALLEL PROGRAMMING IN BIG DATA

We're now entering what I call the "Industrial Revolution of Data", where the majority of data will be stamped out by machines: software logs, cameras, microphones, RFID readers, wireless sensor networks and so on. These machines generate data a lot faster than people can, and their production rates will grow exponentially with Moore's Law. Storing this data is cheap, and it can be mined for valuable information.

In this context, there is some good news for parallel programming. Data analysis software parallelizes fairly naturally. In fact, software written in SQL has been running in parallel for more than 20 years. But with "Big Data" now becoming a reality, more programmers are interested in building programs on the parallel model — and they often find SQL an unfamiliar and restrictive way to wrangle data and write code. The biggest game-changer to come along is MapReduce, the parallel programming framework that has gained prominence thanks to its use at web search companies.

To understand where we're headed with parallel software, let's look at what the computer industry has already accomplished. The branch of parallel research that has had the most success in the field is parallel databases. Rather than requiring the programmer to unravel an algorithm Binto separate threads to be run on separate cores, parallel databases let them chop up the input data tables into pieces, and pump each piece through the same single-machine program on each processor. This "parallel dataflow" model makes programming a parallel machine as easy as programming a single machine. And it works on "shared-nothing" clusters of computers in a data center: The machines involved can communicate via simple streams of data messages, without a need for an expensive shared RAM or disk infrastructure.

The MapReduce programming model has turned a new page in the parallelism story. In the late 1990s, pioneering web search companies built new parallel software infrastructure to manage web crawls and indexes. As part of this effort, they were forced to reinvent parallel databases – in large part because the commercial database products at the time did not handle their workload well. Like SQL, the MapReduce framework is a parallel dataßow system that works by partitioning data across machines, each of which runs the same single-node logic.

SQL provides a higher-level language that is more flexible and optimizable, but less familiar to many programmers. MapReduce largely asks programmers to write traditional code, in languages like C, Java, Python and Perl. In addition to its familiar syntax, MapReduce allows programs to be written to and read from traditional Ðles in a Ðle system, rather than requiring database schema deÐnitions. MapReduce is such a compelling entryway into parallel programming that it is being used to nurture a new generation of parallel programmers. Every Berkeley computer science undergraduate now learns MapReduce, and other schools have undertaken similar programs. Industry is eagerly supporting these efforts.

Technically speaking, SQL has some advantages over MapReduce, including natural combinations of multiple data sets, and the opportunity for deep code analysis and just-in-time query optimizations. In that context, one of the most exciting developments on the scene is the emergence of platforms that provide both SQL and MapReduce interfaces within a single runtime environment. These are especially useful when they support parallel access to both database tables and filesystem files from either language. Examples of these frameworks include the commercial Greenplum system (which provides all of the above), the commercial Aster Data system (which provides SQL and MapReduce over database tables), and the open-source Hive framework from Facebook (which provides a SQL-like language over files, layered on the open- source Hadoop MapReduce engine.)

MapReduce has brought a new wave of excited, bright developers to the challenge of writing parallel programs against Big Data. This is critical: a revolution in parallel software development can only be achieved by a broad base of enthusiastic, productive programmers. The new combined platforms for data parallelism expand the options for these programmers and should foster synergies between the SQL and MapReduce communities. Longer term, these Big Data approaches to parallelism might provide the key to keeping other sectors of the software industry on track with Moore's Law.

Dr. S.N Sheshappa
Associate Professor Dept. of ISE.

Achievers' corner

Kruthika Dinesh, of 3rd year ISE has partcipated in various hackathons and won the first place in HERTECH, National Women-led Hackathon in AI, which was organised by Facebook. She presented a refreshingly innovative idea on the study of security issues in the Internet Of Things.
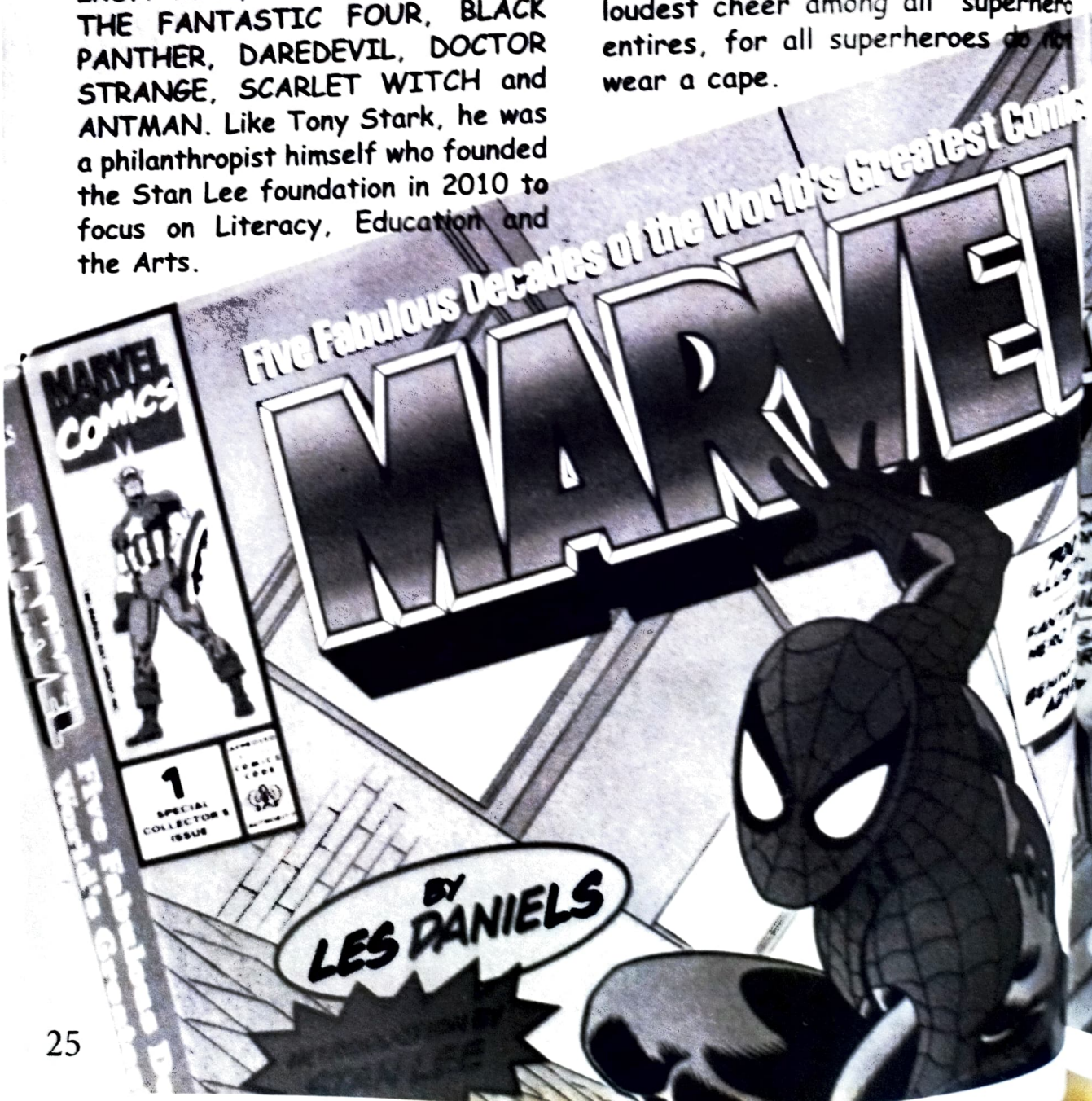
Sushma Fouzdar of 3rd year ISE is an active debater and has partcipated in various debate competitions at the National level and has won the first place in The Soundarya debate India Open and was named the best Speaker.

The Stan Lee Legacy :

He gave us heroes that were flawed, and human. And made us believe that there is a superhero in all of us. What started as comics in 1960s broke the boundaries of creativity and imagination and is currently ruling the box office in the form of the much celebrated marvel cinematic universe. In collaboration with Jack kirby and Steve Ditko, Stan Lee co-created numerous popular fictional charcaters, including superheroes like SPIDERMAN, the X-MEN, IRON MAN, THOR, THE HULK, THE FANTASTIC FOUR, BLACK PANTHER, DAREDEVIL, DOCTOR STRANGE, SCARLET WITCH and ANTMAN. Like Tony Stark, he was a philanthropist himself who founded the Stan Lee foundation in 2010 to focus on Literacy, Education and the Arts.

Lee died in the age of 95 on NOV 12 2018 and the world lost a Visionary, an Artist and most of all a beautiful human being.

Lee was shown in numerous cameo apperances in many Marvel titles, appearing in audience and crowds at many characters' ceremonies and parties. His cameos were the centre of attention in all the MCU movies and we will be seeing him r the last time performing in AVENGERS: ENDGAME. This will surely get the loudest cheer among all superhero entires, for all superheroes do not wear a cape.

Five Fabulous Decades of the World's Greatest Comics

MARVEL COMICS

MARVEL

1 SPECIAL COLLECTOR'S ISSUE

BY LES DANIELS

"Nuff said"

"There is only one who is all powerful and his greatest weapon is Love"

"With great power comes great responsibility"

NOT ALL HEROES WEAR CAPES

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Manju Kogunde

Chakresh Nayak

Chakresh Nayak

Megha SK

Sushma Fouzdar
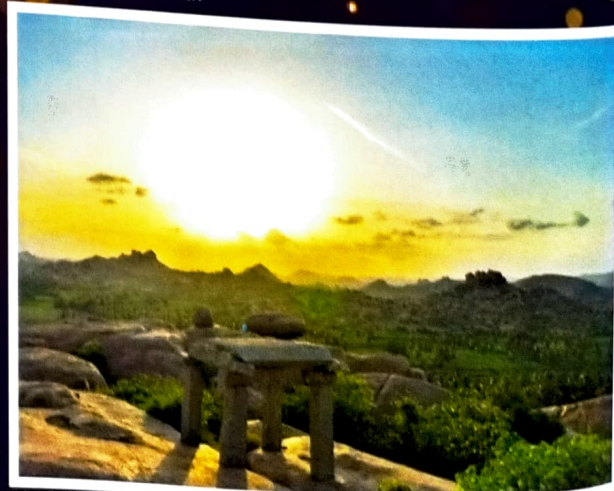

Sushma Fouzdar

Chandana Raju

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Chakresh Nayak

Vimarsha C R

Chakresh Nayak

Neha Devathraj

Vimarsha C R

Anusha

Anusha

Tribute To
DR. ABDUL KALAM
(1931 - 2015)

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