



# Dr. AMBEDKAR INSTITUTE OF TECHNOLOGY

(An Autonomous Institution, Aided by Government of Karnataka, Affiliated to VTU, Belagavi  
BDA Outer Ring Road, Mallathahalli, Bengaluru - 560056)



## DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**Chair Person:** Dr. Siddaraju, Dean(A), Professor & HEAD, Dept. of CSE

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# PRAJNA

a *CSE newsletter*



## OUR MISSION

The Department of Computer Science & Engineering is envisaged to have global excellence in teaching IT and moulding the overall personality of graduates through an expertise teaching and research environment.

## OUR VISION

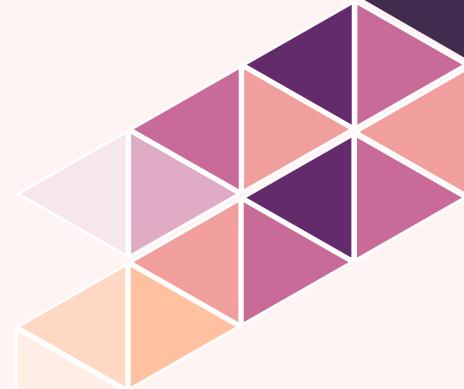
- To impart technical knowledge and skills systematically in various fields of Computer Science and Engineering so as to equip students for IT industry and/or pursue higher studies.
- To actively associate with IT industry, networked institutes and social groups, so as to serve the mankind, and progress in research work with exchange of ideas and needs.

## PEOs

**PEO1:** To **facilitate** graduates to acquire the principles of Computer Engineering, Mathematics and Science so as to analyze real-world problems and Propose solutions that are economically feasible and socially acceptable.

**PEO2:** To **imbibe** students the knowledge with respect to architectural viewpoints, programming skills, modeling and designing software solutions, and make them technically competent to compete globally with confidence.

**PEO3:** To **output** graduates who exhibit's teamwork with professional ethics, effective communication skills and adapt to current trends to work in IT environment and/or pursue higher education.



## WHY PRAJNA

**"PRAJNA"** refers to the highest and purest form of wisdom. It embodies the thought process, knowledge, intelligence and understanding, and constant pursuance to spread this knowledge to everyone. We, the Department of Computer Science & Engineering at Dr. Ambedkar Institute of Technology, Bengaluru, have come forth with this newsletter **"PRAJNA"** - A gateway to spread knowledge and understanding. This newsletter gives information about the events, achievements of students and faculty and also the latest happenings in Information and Communication Technology. So, here's **PRAJNA**-the epitome of knowledge and wisdom.

## IN THIS ISSUE



Workshops and  
Technical Talks



Awards, Certificates  
and Recognition



Placement Activities  
& Industry Visit



Seminars &  
Webinars



Community Outreach  
Activities



Significant  
Moments

# TECHNOLOGY TRENDS

If you're still wondering about the next technological innovation, take a look at some of the newest tech trends that have been hand-picked.

- 5G Technology- A Boon For Businesses in 2020**

The term '5G' has been creating a buzz for almost half a decade now and since it has rolled out, it definitely, like its predecessors, has created a revolution of a kind. The advent of 5G is one of the most enigmatic new upcoming technologies that could impact businesses in 2020. Many industry experts have termed 5G as the future of communication and to a great extent, it is true.

- Autonomous Driving - An Easy, Safe Driverless Drive**

You must be apprised of companies like Tesla, Alphabet, and Waymo, and the one thing that is common among them is their objective, which is to craft impeccable autonomous vehicles. The idea of a driverless car in itself generates a considerable amount of excitement.

Tesla and SpaceX founder and chief Elon Musk already has the future design of autonomous vehicles and aims to go big in this industry. During an interview Elon has stated, "From our standpoint, if you fast forward a year, maybe a year and three months, but next year for sure, we'll have over a million Robo-taxis on the road."



- Edge computing - Bridging the Gap Between Data Storage and Computation**

Edge computing brings data storage and computation closer to the businesses, and hence, ameliorates the response times and saves bandwidth. Also, it weighs more like the latest trend in technology because the industries are rapidly empowered with sophisticated and specialized resources, which is bound to reduce the latency.

The primary advantages of Edge computing include

- Edge computing enhances the security to a new level by countering the issues of local compli-

ance, privacy regulations, and data sovereignty.

- Edge computing reduces the cost of retaining the data significantly. As data can be retained in edge locations, it significantly reduces the bandwidth cost and all but eliminates the redundant storage.
- As of now, edge computing is being fuelled by the rapid evolution of the Internet of Things (IoT) and in the future, it will create an unstructured architecture over a set of distributed cloud services.

- Democratization- A Democracy in Technology**

The democratization of technology refers to the easy access of technical domain to everyone, irrespective of their profession and place. Gartner asserts four key aspects of the democratization of technology trends that will make it bigger in 2020:

- Application development
- Design
- Knowledge
- Data and analytics

The best example of democratization can be credited to the developers, who will be able to generate data models without learning the skills of a data scientist.

- Human Augmentation - Enhancing Cognitive Abilities**

Human augmentation can be defined as a process by which a person's physical and cognitive ability is strengthened. Once implanted in a human being, it will enable the person to execute tasks that were earlier impossible for him. The augmentation of humans will not only enhance the physical endurance of a person but it will also enhance the human's ability to think and decide better. To put it simply, we can say that human augmentation does hold substantial potential in the future of technology.

- Distributed Cloud- Connecting Operations to Cloud Services**

The trends in cloud storage and cloud computing are already embraced by industries across the globe and the next big thing that is going to hit the tech ecosystem is the distributed cloud

system. Distributed Cloud helps in connecting the public cloud distributed operation of cloud services to specific locations. It's expected that by 2020, 75% of the enterprise-generated data will be processed regardless of the centralized data center. This new upcoming technology of 2020 will be a significant breakthrough in cloud infrastructure.

- DARQ- An Asset for Hiring and Training**

Shaping as one of the recent trends in technology this year, Distributed ledger technology (such as blockchain), Artificial intelligence (AI), Extended reality (including virtual and augmented reality), and Quantum computing, abbreviated to DARQ form one such future technology trend of 2020 that business must integrate on priority. So, when you approach hiring, training, and employee retention in 2020, keep DARQ in mind.

- AI Products- For the Ease of Life**

Artificial technology or AI is not a new term in the IT-sphere, but now there are further verticals of AI that are shaping the industries globally and this is eventually making the technology features in the top IT trends today.

AI technology trends, including products like AlterEgo, a mind-reading wearable, and citizen robots like Sophia, are promos on how big AI technology will get in 2020. Companies like Domino's and Doordash are already experimenting with drones and robot delivery.



- Data-Driven Policing- Countering Data Breaches and Cyber- Attacks**

Emerging and upcoming technology trends like cryptocurrency will be one of those upcoming technologies that are yet to be compliant with privacy laws. An insertion of personal data into public blockchains can be a major worry for 75% of public blockchains by 2020. As a result, an entire ecosystem, based on data-driven technologies, that is constantly growing in its interconnections is a key tech trend that businesses can benefit from by forging early-on partnerships.



**Dr. C . Nanjundaswamy**

Principal  
Chief Advisor - PRAJNA - Newsletter  
Dr. Ambedkar Institute of Technology  
Bengaluru – 560056

## MOBILE GAME DEVELOPMENT COMPANIES

### Tintash

Tintash is a premier game app development company that specialises in designing, production and development of world-class 2D and 3D games.

CLIENTS

- LifePrint
- Decorist
- Embr Labs
- Playdate Digital

### Inkcadre Technosoft Pvt Ltd

It's one of the biggest application developers in India that is always thinking and delivering out-of-the-box products.

CLIENTS

- Walking Word website
- PJVL 4x4 Game Development
- CHILDREN'S BOOK
- Word of God | 2D ANIMATION

### Apps Maven

The Indian game app developer covers a massive solution landscape with peerless services for gamification, mobile and mobility, web and Digital Transformation.

CLIENTS

- BubbleSoftwareLLC
- PictureYourTravel
- CelppointCorporation
- Moovler-DeliveryCompany

### United Ideas

United Ideas has a reputation for maintaining the highest levels of creativity, discipline and professional ethics. In less than 10 years of operation, the company has a proven track record with over 200 successful project deliveries where interestingly, 90% of the projects were referrals from existing clients.

CLIENTS

- TeamItUp
- UniDosh
- STAMP
- Tookapic

## CHAIR PERSON's DESK



**Dr. Siddaraju**

Chair Person - PRAJNA - Newsletter  
Dean(A), Professor & HEAD,  
Department of Computer Science & Engineering  
Dr. Ambedkar Institute of Technology  
Bengaluru – 560056

It is a matter of great pleasure and satisfaction that Department of Computer Science & Engineering has come up with the first issue of the department Newsletter - "**PRAJNA**".

Let me quote a speech by Sundar Pichai that is being massively shared for the past few days. It's a speech about the 'cockroach theory' for self-development. Here's how the theory goes:

"At a restaurant, a cockroach suddenly flew from somewhere and sat on a lady. She started screaming out of fear. With a panic-stricken face and trembling voice, she started jumping, with both her hands desperately trying to get rid of the cockroach. Her reaction was contagious, as everyone in her group also got panicky.

The lady finally managed to push the cockroach away. But it landed on another lady in the group. Now, it was the turn of the other lady in the group to continue the drama. The waiter rushed forward to their rescue. In the relay of throwing, the cockroach next fell upon the waiter.

The waiter stood firm, composed himself and observed the behavior of the cockroach on his shirt. When he was confident enough, he grabbed it with his fingers and threw it out of the restaurant.

Sipping my coffee and watching the amusement, the antenna of my mind picked up a few thoughts and started wondering, was the cockroach responsible for their histrionic behavior? If so, then why was the waiter not disturbed? He handled it near to perfection, without any chaos.

It is not the cockroach, but the inability of the ladies to handle the disturbance caused by the cockroach that disturbed the ladies. I realized that, it is not the shouting of my father or my boss or my wife that disturbs me, but it's my inability to handle the disturbances caused by their shouting that disturbs me.

Lessons learnt from the story I understood, I should not react in life, I should always respond. The women reacted, whereas the waiter responded.

Reactions are always instinctive, whereas responses are always well thought of, just and right to save a situation from going out of hands, to avoid cracks in relationship, to avoid taking decisions in anger, anxiety, stress or hurry. You might be thinking, what is the relevance of this "cockroach theory" in the current situation! We can adopt this theory to any situation in our life. The Covid-19 pandemic is the right example where the world has to respond to the situation instead of reacting! Covid-19 has shaken the world by posing a biggest challenge in the world history after Second World War. This is the biggest global health crisis we have ever seen. It is of no use if we get panic. We should follow all the safety guidelines suggested by health experts by following a social distance, using facemasks, cleaning hands with sanitizers/soap.

Beyond the health it has affected the functioning of educational institutions. It is important to have an eloquent interaction between the teachers and the students. As direct interactions are risky in the current pandemic situation, we at Dr. Ambedkar Institute of Technology have responded to the situation in an indulgent way and have taken appropriate steps to keep the functioning of the institution intact. Using collaborating applications and other technology solutions we have organized webinars and faculty development programmes which have benefited thousands of participants. I see a great dedication from our faculty members and respective coordinators in organizing these events. I'm proud to say that we at department of CSE lead by example.

I'm pleased to present to you the beautifully designed first edition of our department Newsletter - PRAJNA. I really appreciate the effort and the dedication of our staff members, chief editor and student coordinators to make this happen. I congratulate all the contributors who have shared their thoughts through the articles. Hope we continue to do this impressive work.

Let's fight the pandemic situation by following safety measures. 'Thank you' to all the Corona Warriors who are fighting this disease on the frontline and are putting their lives at risk to keep us safe. Let's support the needy ones in this critical situation and together we shall overcome this crisis soon.

Finally, I conclude with the words of **Bharat Ratna Dr. B. R. Ambedkar** "**Cultivation of mind should be the ultimate aim of human existence**".

**Jai Hind.**

## CHIEF EDITOR's DESK



### **Ms. Lavanya Santhosh,**

Chief Editor - PRAJNA - Newsletter,  
Assistant Professor,  
Department of Computer Science & Engineering  
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mask etc ). It was essential to ensure all the business operations and services run effectively and uninterrupted.

Computer and Internet Technologies came as a saviour in such tiring conditions. This has led even the first-timers who were not exposed to computer's before were able to understand the real benefits of the computer world. This pandemic has affected almost every Industry and obstructed the life and work of everyone nationwide. Though Business as usual ( BAU ) was not very much affected, the likes of Education Institutions and Business Organizations have taken a hit as they are not been able to keep their Students, Faculty members and Employees together in one place.

Work from home is not a recent practice for many organisations. Most of them continued their operations in a distributed manner using their organisational VPN 's. But educational Institutions had to find a novel way to continue educating their student fraternity. Thanks to collaborating applications like WebEx, Microsoft Teams, YouTube, Google Meet etc., where students are able to participate in various activities from the convenience of their place.

Dr. Ambedkar Institute of Technology is not behind in adopting to this new environment. Our management responded positively and quickly to the challenging situation posed by COVID-19 pandemic. We conducted many webinars in last few 4 months where knowledgeable and experienced speakers from various Educational Institutions and Organizations have shared their valuable knowledge with nearly 2,000 attendees in total. On behalf of the editorial team, I would like to thank **Dr. Siddaraju, HOD**, Dept. of CSE for his continuous support and motivation that played a huge role in bringing out this newsletter in present form.

Dr. Ambedkar Institute of Technology is adapting to current situation and soon we will be in the post COVID -19 era. Our special thanks to **Dr. Gowrishankar. S** and **Ms. Asha K. N** for their inputs and encouragement. Thanks to all the staff members and students who believed in our strengths. In order to make our department newsletter the best it can be, we did like your feedback on what you'd like to see in the newsletter.

I conclude with the words of **Dr. A . P . J . Abdul Kalam** "**If you fail, never give up because FAIL means "First Attempt In Learning"**".

**Stay Safe.**

# STUDENT EDITORIAL BOARD

**I**t is a great honor and privilege that we bring you the first issue of "Prajna", the half yearly newsletter of department of computer science and engineering, Dr.AIT. The name of our newsletter - "Prajna" refers to wisdom, knowledge and thinking wisely and consciously, it very categorically and strategically sums up the various pursuit of our department. When an idea that has been enduring in mind

becomes reality, it is definitely a thrilling and fascinating experience. This new task that we have been assigned to, is one such esteem work that we have fulfilled to the best of our capabilities. As an editorial board, we bring you the most happening events through academic, training, research and fun filled activities that happened in the past half year. Since this is the very first issue of our department, we have taken a small

step in capturing the big picture and its happenings. The Covid-19 pandemic has brought us all an uncommon situation, and we have challenging and uncertain times ahead. Hope you and your family are safe and are following the social distancing norms. We very much look forward to strengthening the reputation of our newsletter and we

want to attract more inputs. We hope that our readers find this issue informative and interesting.



Deekshith SA



Monish K



Sanjay S Dev



Mohit Kumar R



## RUBY JUBILEE

On successful completion of 40 years, Dr. Ambedkar Institute of Technology, one of the premier institutes in Karnataka is celebrating its Ruby Jubilee year 1980 - 2020. In this regard, the Department of CSE in association with the Computer Society of India student chapter Bengaluru has planned

for various workshops, seminars, symposium, conferences, faculty development programs, projects, exhibitions and many more. It also aims at fostering the latest trends and technologies in the field of engineering among the faculty and student fraternity.

## INAUGURATION OF CSI STUDENT CHAPTER BENGALURU

Tuesday 25th of February 2020 marks the day when the Computer Society of India, Student Chapter, Bengaluru, was set in motion along with a 5 day workshop on "Design and Development of Applications



using IoT Launch pads" in Dr. Ambedkar Institute of technology by the Department of Computer Science & Engineering. The Chief Guests for the function were Dr. Anbunathan

Ramiah, Chairman of Computer Society of India, Dr. S N Omkar, Scientist, IISc Bengaluru, Mr. Jeevan, Representative of Ed-Gate, Texas Instruments. The Guests of Honor were Dr. C. Nanjundaswamy, Principal,

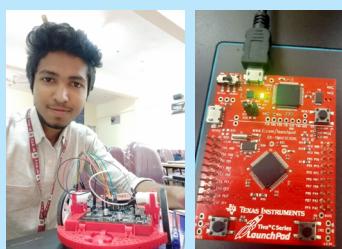
Dr. AIT, Dr. Siddaraju, Dean(A) & HEAD, Dept. of CSE, Dr. AIT, Dr. B.V. Sumangala, Vice-Principal, Dr. AIT.



# HANDS ON WORKSHOP

**Five days Hands on workshop on “Design and Development of Applications using IOT Launch Pads”**

A five day hands on workshop on “Design and Development of Applications using IoT Launch pads” was organized from 25th to 29th February at Dr.AIT. Organized by Dr.Siddaraju, Dean (A), HOD Dept of CSE, www Mr. Jeevaprasath A,



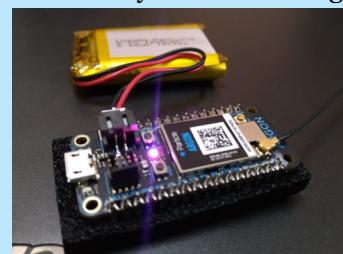
Representative of Ed-Gate, Texas Instruments was the chief speaker assisted by Mr. Kushal Lesarkar. The major outcomes are Introduction to Texas Instruments, Architecture of TM4C123GHP6M, Introduction to Code



Composer Studio (CCS), Programming the TM4C123GHP6M module using CCS, Blinking and glowing LEDs of multiple colors using RGB color Scheme, Introduction to



Energia IDE, Programming in Energia IDE and glowing LEDs of multiple colors using RGB color Scheme, Internet of Things (introduction), Internet terminologies CC3100 Booster-Pack, TCP/IP Theory and working,



Socket Programming, Rover designing, Motor drivers, Texas Instruments RSLK, Bylnk, IFTTT, Particle, Tinker, Google Sheet, Data Logger, Particle Mesh using Argon and Xenon.



## COMPUTER SOCIETY OF INDIA



The Computer Society of India (CSI) has been instrumental in guiding the Indian IT industry since its formative years. The mission of CSI is to facilitate research, knowledge sharing, learning and career enhancement for all categories of IT professionals, while simultaneously inspiring and nurturing new entrants into the industry and helping them to integrate into the IT community.

## TECHNICAL TALK



### A DAY'S TECHNICAL TALK ON TECHNICAL PAPER WRITING

A one day technical talk on “Technical Paper Writing” was organized from 25th to 7th March at Dr.AIT. Organized by Dr. Siddaraju, Dean (A) and HEAD, Department of CSE, Dr. K. R . Shylaja, Ms. Veena Potdar, Ms. Asha .K. N, Ms.Asha Rani . K . P. The speaker for the day was Mr.Dattatreya S Vellal, CSI Industry expert. The program was organized in association with Computer Society of India Student Chapter Bengaluru.



## IISc OPEN DAY

The student members of CSI student chapter from Dr.AIT, along with the faculty coordinators Dr.KR Shylaja, Ms.Veena Potdar, Ms.Asha KN, Ms.Asha Rani KP, were taken to IISc Bengaluru on Open Day. There

the students were exposed to various departments and fields and attended various presentations and demos. IISc showed them various projects that can be done using IoT components. There were also interactive talks, seminars, puzzles and other wonderful educational exposures which the students enjoyed and grasped to their hearts content.



# NIRANTHARA

**N**iranthara is a Computer Literacy Program for rural students initiated by Dept. of CSE, Dr. Ambedkar Institute of Technology, under which students were trained for basic computer knowledge. This program is designed mainly to provide the computer knowledge, both hardware and software, which can be

## A Computer Literacy Program at Rural School



### Day 1:

With enthusiasm, the CSE team visited Govt. High School, Hebbakodi, Thumbenahalli, Ramanagar District to give an exposure on computer basics to 75 students on **17th Feb, 2020**. The Head Master **Prof. Narayana** and staff of the school gave a warm welcome for all the team members of "Niranthara".

Our beloved HOD of CSE,



## ANNUAL ATHLETIC MEET

**W**hile winners get motivated to work even harder, losers learn to take defeat in the right spirit. Thus having an athletics meet in our college is the event that everybody



looks forward to. The much awaited Annual Athletic meet was held on 22nd, February 2020, with great zeal and frolicsome atmosphere. The program began with the Vice Principal Dr. B. V. Sumangala welcoming the dignitaries Mr. K. V. Manjunath, Mr. T. N. Raju, Dr. Anuradha and the esteemed gathering and emphasized on importance of sports and physical activities.

Students and faculty from various department actively participated in various events like sprints (100m, 200m relay), shotput, long jump, etc. **Ms. Lavanya Santhosh** - 1st Place in shotput, 3rd Place in Javelin Throw & Discus Throw. **Ms. Pushpavani . H . P** - 1st Place in 100mts, 200mts running, Discus Throw, 3rd Place in Javelin Throw. **Ms. Jayalingamma . S** - 1st Place in Javelin Throw, 2nd Place in Shotput, Discus Throw. **Mr. Chidanandan . V** - 1st Place in Longjump, discus throw and 2nd Place in shotput. **Mr. Anand Kumar Naik** - 1st Place in 100mts running. Food is the only universal thing that unites people, on that note refreshments for all participants and audience was organized. The day was organized to bring out the true sportsmen spirit of faculty and students.



**Dr. Siddaraju** addressed the gathering and gave a motivational speech to the students. **Ms. Asha K N** took a class on basics of computers, its working and the parts of



computer accompanied by **Ms. Asha Rani K P**, **Mr. Vinod Kumar K P**, **Ms. Sowmya C L**, **Ms. Shalini N** and **Mr. Chikkamuniyappa C** to show physically the various parts of computer.

In the afternoon session, **Ms. Asha Rani K P** handled a class on MS-Word basics as hands on session for students

accompanied by **Mr. Vinod Kumar K P**, **Ms. Sowmya C L**, and **Ms. Shalini N**.

### Day 2:



On **18th Feb, 2020** we reached at Govt. High School, Hebbakodi, Thumbenahalli at 11:00 A.M. The session on basics of MS-Excel and MS-PowerPoint was explained along with the hands on session by **Mr. Asha K N** accompanied by **Ms. Asha Rani K P**, **Ms. Lavanya Santhosh**, **Mr. Chikkamuniyappa** and **Mr. Sathish**. Followed by this, class on Basics of Internet was also held. Chief Coordinator **Dr. Siddaraju** Dean(A), HOD Dept. of CSE along with Faculty Coordinators **Dr. KR Shylaja**, **Ms. Asha KN**, **Ms. Asha Rani KP**, **Ms. Sowmya CL**, **Ms. Shalini N** and **Mr. Vinod Kumar KP**.

## DID YOU KNOW ?

### A PETABYTE IS A LOT OF DATA

**W**e all know 1 GB is the same 1024 MB, but did you know that 1 petabyte (PB) is equivalent to 1024 terabytes (TB)? To give an



example of how big this is, a 1 PB hard drive could hold 13.3 years of HD-TV video. A 50 PB hard drive could hold the entire written works of mankind, from the beginning of recorded history, in all languages.

## INDUSTRY VISIT

Three Days Industrial Visit to National Institute of Oceanography, Dona Paula, Goa was organized by Department of Computer Science & Engineering, Dr. Ambedkar Institute of Technology (Dr. AIT), Bengaluru from 13/03/2020 to 15/03/2020.



Industrial visits are part of the academic education for engineering students. NIO is one among the Top research organisation, they are having a very big campus at Dona Paula, Goa.

NIO is an autonomous research organization in India to undertake scientific research and studies of special oceanographic features of the Northern Indian Ocean. The major outcomes



from this visit include, learning about their current research, Technology that is being used for Marine studies, various methods that have been adopted for collection of different types

## Industrial Visit to National Institute of Oceanography, Dona Paula, Goa



of ocean data, processing and analytical methods applied.

Chief Convener Dr. C. Nanjundaswamy, Principal, Dr. AIT. Chief Coordinator Dr. Siddaraju, Dean(A), Professor and Head, Department of Computer Science and Engineering and faculty coordinators Dr. Y S



Kumaraswamy - Research Professor, Dr. Nandini N - Associate Professor and Ravikumar J - Assistant Professor, Department of Computer Science and Engineering. Total of 44 students of final year BE computer science and engineering were present for the visit along with three faculty coordinators.



and also as a part of this generation, getting opportunities to explore and learn creatively about IoT is a privilege. Our college recently inaugurated IoT Club and an exclusive IoT lab. It is a major step for gaining knowledge for interested students. Additionally, it is extremely beneficial for students to experiment and learn more through practicality. Our college



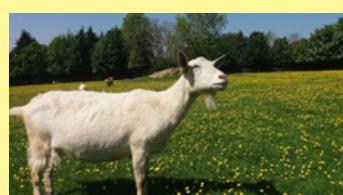
has provided students with the latest technology and also all the necessary, great quality equipments for us to indulge more into the concepts of IoT. Multiple workshops were conducted as an introductory and learning program. All the basic information required, procedure to handle the detailed equipments and also various ideas to help us learn and create more was taught through the workshops. An exclusive and excellent lab was provided to students



## DID YOU KNOW ?

### GOOGLE RENTS OUT GOATS

Instead of mowing their lawn, Google rents goats to eat the grass at their Mountain View headquarters. A herder will bring 200 goats which are herded by a border collie named Jen.



## IOT LAB @ CSE

Internet of Things, in an engineer's perspective has become one of the most important and crucial concepts in terms of knowledge, necessity and creativity. In this generation, which is dominated mostly by data and information, IoT provides the basis for interaction between humans and computers in multiple forms. As an aspiring engineer



## PLACEMENT ACTIVITY

**C**ompared to the early 2000's, when most graduating students used to bag lucrative offers, nowadays companies have taken up a cautious campus placement strategy. And it's evident that companies have shifted their focus from quantity to quality. The companies that participate in campus placement at Dr.AIT test aspirants at multiple levels to make sure only the best candidates who have the suitable skill set and a positive attitude are selected. The covid-19 pandemic has brought us all an unprecedented situation, and we have challenging and uncertain times ahead. In view of this\* companies like Juniper Networks, Netgear, COLT Technologies, COMVIVA and

ATOS Syntel have participated in this year's campus placement drive.



**Pranav. R**  
Juniper Networks



**V.J.Harshitha**  
Juniper Networks



**Niranjan. N.C**  
Juniper Networks



**Sagari. C**  
COLT Technologies



**Sagar P  
Gowda**  
ATOS Syntel



**Sunil Kumar  
A Hiremani**  
COMVIVA



**Hemalatha. N. K**  
COMVIVA



**Divya. I. B**  
Netgear



## COMMUNITY OUTREACH ACTIVITIES BY STUDENTS

**A**part from technical knowledge and skills, to be successful as professionals, students should have excellent soft skills, leadership qualities and team spirit. They should have entrepreneurship capabilities and societal commitments. In order to match these multifarious requirement, AICTE has created a unique mechanism of awarding Activity Points over and above the academic grades. The below activity was carried out by 4th sem students under the guidance of Ms. Madhu . B, Ms. Vinutha M S, Ms. Sangeetha G M , Assistant Professor, Dept. of CSE, Dr. AIT.

### Wall Painting

**W**all painting activity under Swachh Bharat Abhiyan was organized by Deekshith S A,Dept. of CSE, Dr. AIT, in collaboration with Sumana Foundation, from 14th to 17th March. Participants are Deekshith S A, Deepa VJ, Darshan Balaji P S, Durgashree J, Bhargav G K, Ananya R, Badri Narayan S, Brunda N M,Abhishek H,

Brunda P of 2nd year. The BBMP had permitted three spots on 15th Cross, 3rd Main, HIG Colony, Near Devasandra Bus Stop, RMV 2nd Stage, Bengaluru, Karnataka 560094 for activity.

Cleanliness is an important quality of life. In fact, it is a habit which is often



considered just next to godliness. Cleanliness is a habit not related to the wealth of a person, rather it is a habit which depicts the qualities a person is enriched with. To make the society aware of such a necessary quality of life, Team Summer have come up with an initiative of street art i.e., wall painting.



### Visit to Orphanage

**S**tudents from 2nd year Deekshith SA, Bhuvan EP, Deepa VJ, Durgashree, Karthik S have taken an active step to help orphan kids enhance their creativity. They approached the caretaker of Belli Chukki Foundation, Orphanage home for children and have done a five days of creative activities from 20th to 24th February 2020.



### DID YOU KNOW ?

**Now, colleges offer unique courses on coronavirus**

**E**ven as the world is trying to develop the Covid-19 vaccine, Indian educational institutes are starting to introduce the coronavirus pandemic as a subject to its students. These courses are not limited to medical students and the pandemic has made its way to the curriculum of engineering, management and policy-making as well.

## TECHNICAL TALK @ CSE, Dr. AIT

- “**How to think like an Entrepreneur?**” by Mr. Shan Ibrahmi, Deployment Engineer, HP on 01-02-2020. **Faculty Coordinators:** Ms. Shanmuga priya . R, Ms. Tejaswini . K, Mr. Revanasiddappa, Ms. Vinutha . H
- “**Dissecting Attitude**” by Ms. Bindu, Global Head, HP on 12-02-2020. **Faculty Coordinator:** Dr. Prabha . R
- “**Geo-Spatial and Applications**” by Dr. UnniKrishanan, ISRO on 15-02-2020. **Faculty Coordinators:** Dr. Nandini, Mr. Vinod Kumar . K . P
- “**Technical Paper Writing**” by Mr. Dattatreya S Vellal, CSI-Industry Expert on 07-03-2020. **Faculty Coordinators:** Dr. Shylaja . K . R, Ms. Asha . K . N, Ms. Asha Rani . K . P, Ms. Veena Potdar

## WORKSHOPS @ CSE, Dr. AIT

- “**Introduction to Salesforce Trailhead**” by Mr. Yashas Babu, Mr. Anand Varanasi, Mr. Navjot Singh Multani in association with Cloud Paradigm and Salesforce on 08-02-2020. **Faculty Coordinators:** Mr. Praveena . M . V, Mr. Srinivasa . A . H, Mr. Harish Kumar . H . C
- “**Design and Development of Applications using IoT Launch Pads**” by Mr. Jeevaprasath A and Mr. Kushal Lesarkar representative of Edgate Technologies Pvt.Ltd dated from 25-02-2020 to 29-02-2020. **Faculty Coordinators:** Dr. K . R . Shylaja, Ms. Asha . K . N, Ms. Asha Rani . K . P, Ms. Veena Potdar
- “**Advanced Embedded Design and IoT Applications**” by Mr. Jeevaprasath A and Mr. Kushal Lesarkar in representative of Edgate Technologies Pvt.Ltd dated from 10-03-2020 to 13-03-2020. **Faculty Coordinators:** Dr. K . R . Shylaja, Ms. Asha . K . N, Ms. Asha Rani . K . P, Ms. Veena Potdar

## SEMINAR @ CSE, Dr. AIT

- “**Computer Networking through Qualnet Simulator – A Practical Approach**” by Mr. Rajesh Bhandary and Mr. Rohan Mohan Jadagouda representative of Nihon Communications on 07-03-2020. **Faculty Coordinators:** Dr. Smitha Shekar . B, Dr. Harish . G

## WEBINARS

- “**Cyber Security**” by Mr. Nagaraja A S, Founder-Director, IT Secure Systems, Bengaluru on 11-06-2020. **Faculty Coordinator:** Ms. Madhu . B
- “**Sensors and Deep Learning Applications for Safe Navigation in unstructured Traffic Environment Using AI**” by Mr. Arvind C S, Senior reserach officer, A \* star Signal and Image processing, Laboratory of Molecular Imaging, Singapore on 12-06-2020. **Faculty Coordinators:** Mr. Revanasidappa, Ms. Vinutha . H, Ms. Shanmuga Priya . R, Ms. Tejaswini . K
- “**Remote Sensing for Environmental Studies**” by Dr. Ganesh Raj, RRSc - ISRO, Bengaluru on 13-06-2020. **Faculty Coordinator:** Dr. Nandini . N
- “**Patents to Boost Innovation**” by Ms. Bindu Sharma, Founder and CEO, Origin IP Solutions LLP on 18-06-2020. **Faculty Coordinators:** Dr. Gowrishankar . S, Mr. Srinivasa . A . H, Mr. Suresha . D, Mr. Praveena . M . V, Ms. Lavanya Santhosh, Ms. Veena . A
- “**Future of digitalization and AI in industry**” which was presented by Mr. Steven Balding, Head of Digitalization for Siemens Ganesa Hull, UK , Deep learning engineer, Optalysis, Reasearch Assistant from the University of Hull, UK on 19-06-2020. **Faculty Coordinators:** Dr. K . R . Shylaja, Ms. Veena Potdar, Ms. Asha . K . N, Ms. Asha Rani . K . P
- “**Machine Learning-An Industry Practitioner’s Perspective**” by Mr. Chetan Nadiger, Researcher in Machine Learning, Intel India Pvt.Ltd on 22-06-2020. **Faculty Coordinators:** Dr. Gowrishankar . S, Mr. Srinivasa . A . H, Mr. Suresha . D, Mr. Praveena . M . V, Ms. Lavanya Santhosh, Ms. Veena . A
- “**Let’s talk Blockchain**” by Dr. Prasad Honnavalli, Professor and Director at PES University, Advisor to Start-ups and Growth firms and Prof. Sunitha R, Assistant Professor, Computer Science & Engineering, PES University on 26-06-2020. **Faculty Coordinators:** Dr. K . R . Shylaja, Ms. Veena Potdar, Ms. Asha . K . N, Ms. Asharani . K . P
- “**Applied Cryptography for IoT**” by Dr. Rajan M.A, Senior Scientist, TCS, Research and Innovation Labs, Bengaluru on 27-06-2020. **Faculty Coordinators:** Mr. Chidanandan . V, Ms. Arathi . P, Ms. Vinutha . M . S, Ms. Pushpaveni . H . P, Mr. Ravi Kumar . J, Ms. Mamatha . S . K
- “**Topological Data Analysis**” by Dr. Vijay Natarajan, Mindtree Chair Professor, Department of Computer Science and Automation, Indian Institute of Science (IISc), Bengaluru on 29-06-2020. **Faculty Coordinators:** Dr. Gowrishankar . S, Mr. Srinivasa . A . H, Mr. Suresha . D, Mr. Praveena . M . V, Ms. Lavanya Santhosh, Ms. Veena . A

## TECHNICAL TALK OUTSIDE Dr. AIT

- **Dr.Nandini.** N presented a paper on “**Human Values**” and Ethics at International Joural, Purvanchal University, Jaunpur, Uttarpradesh, 10th Jan 2020.
- **Dr.Nandini.** N delivered a Technical Talk on “**IoT Application**” at Government Polytechnic, Chinthamani, Chikkaballapur District, Karnataka on Feb 2020.
- **Dr.Nandini.** N delivered a Technical Talk on “**IoT Application**” at Noorul University, Kumarakoil, Tamilnadu on 28th Feb 2020.

## STUDENT's ACHIEVEMENTS

### CERTIFICATIONS

- **Deekshith S A** has completed courses on “**Joy of Computing in Python**” and “**Introduction to Programming in C**” from NPTEL. He has also completed course on “**JAVA Programming**” from BALC Academy.
- **Shravan K R** has completed course on “**Python for Data Science**” from NPTEL.
- **V Rahul** has completed course on “**Programming, Data Structures & Algorithm using Python**” from NPTEL.
- **Divakar D** has completed course on “**Digital Marketing**” from Google. He has also completed course on “**JAVA**” from UDemy, “**Web Designing**” from BitDegree. He has also participated in “**National Level Quiz on ML**” from Sridevi Women’s Engineering College.
- **Mohamed Saqlain** has completed course on “**Digital Marketing**” from Google.
- **Pakshal Bhandari** has completed course on “**Software Engineering Virtual Experience**” from JPMorgan Chase & Co.
- **Sourabh S** has completed courses on “**Neural Networks & Deep learning**”, “**Improving deep neural networks: Hyperparameter tuning, Regularization & Optimization**”, “**Structuring ML Projects**”, “**Convolutional Neural Networks**”, “**Sequence Models**” from deeplearning.ai, Coursera.

### WEBSITES

- **Corona virus Covid-19 tracker** <https://covid19india19.netlify.app/> developed by **Deepak Singh**.

### PROJECTS

- **Ms. Brunda R N, Ms. Hemalatha N K, Ms. Prakruthi G S, Ms. Ananya K** have worked in the project “**RUBBISHOW – Garbage Area Estimation & Detection using Augmented Reality & Deep Learning**” under the guidance of **Dr. SN Omkar**, in AFS Lab at IISc, Bengaluru from 06/01/2020 to 22/06/2020.

# MACHINE LEARNING & ROBOTICS CLUB

Today, robotics and machine learning are a rapidly growing field, as we continue to research, design and build new robots and new machine learning models that serve various practical purposes including domestic, commercial and military applications. The Machine Learning and Robotics Club,

Computer Science Engineering Department of Dr. Ambedkar Institute of Technology strives to stimulate interest in machine learning and robotics among the students of the institute. It was initiated in 2019 under the guidance of Professor Dr. K. R Shylaja , with the support of Dr. Siddaraju Dean (A), & HEAD, Dept. of CSE , Dr. AIT and Dr.C.Nanjundaswamy, Principal, Dr. AIT with the students of 2nd ,3rd and 4th year Computer Science and Engineering Department, Dr. AIT. Well defined goals, an organized and disciplined work structure and motivated



members are the features of the club, to mention a few that have helped the club to evolve. The club today is an active platform for students to display and develop their practical machine building skills and knowledge. We believe that knowledge has value only when it is put into practice so the members

of the Club also have started with some mini - projects related to ML and Robotics so that we can experiment and learn different aspects of ML and Robotics. We encourage the motivated students of Computer Science and Engineering Department of Dr. AIT interested in Machine Learning and Robotics to join the club and together learn, explore and experiment various technology related to Machine Learning and Robotics.

## **-Machine Learning and Robotics Club Team**

## ARTICLES

### Time to Unlock the Benefits of Online Education

One can say that the COVID-19 pandemic single-handedly transformed the way we perceive the online education. There was a time when online education was junked as it was considered not an effective tool for teaching. Now, online mode has come to the forefront in delivering the quality education. The online mode presents lots of flexibility to students to pursue the courses at a pace they prefer. Online learning is already a hit among people who are dabbling with a career and intend to take up a degree of their interest.



All India Council for Technical Education (AICTE), University Grants Commission (UGC) along with the Ministry of Human Resource Development (MHRD) have taken lots of steps to make the education accessible to students irrespective of where they are living. AICTE, UGC and other accreditation

agencies are moving in right direction to democratize the way education is imparted. These accreditation agencies have started to recognize the degrees offered through online mode by the premier institutions. In India, for the first time the Indian Institute of Technology-Madras (IIT-M) is offering a BSc degree in Programming and Data Science through online mode with multiple exit levels and this degree is fully recognized by the senate of IIT-M. Thus, the graduates of this degree will be considered as the alumni of IIT-M.

UGC has also given permission for students to pursue an additional degree along with the degree they are pursuing if the additional degree is through the online mode.

The Government of India has given permission for top 100 universities to offer fully accredited degrees like MSc, MBA through online mode starting from the current academic year. Let us not forget the role of distance education universities like IGNOU, New Delhi, whose degree are well known for their rigorous curriculum and are highly sought after by the industries. In most of the cases we can obtain these accredited degrees at a fraction of cost compared

to what the traditional institutions offer.

Previously, in a traditional setup, the number of participants in a workshop or activity classes were restricted owing to the limited number of seats available in the room. This led many deserving participants out of the knowledge domain. While this is no longer the case in the online mode. Webinars and Hands-on workshops are being delivered through online mode. Henceforth, the participation to seek knowledge is no longer restricted by the unavailability of the seats, but rather it is by the lack of enthusiasm on part of the students.



SWAYAM, the India specific MOOCs platform has revolutionized how the content is delivered to students. The SWAYAM platform has enabled teachers from premier institutes to impart knowledge to students who seek to have advanced know how in their interested domain.

Visvesvaraya Technological University, Belagavi popularly known as VTU, has framed the rules to bestow "Honours" for B.E. degree programmes. Students are eligible for the "Honours" by earning an additional 18 credits through SWAYAM online courses, along with the existing number of credits that are needed to earn their bachelor's degree. A student with "Honours" demonstrates his ability to think critically and superior academic ability.

Let me conclude this article by stating that the benefits of online education is immense but is not a replacement of traditional face-to-face education. Instead, online education works in tandem with the traditional mode of education. The benefits of online education should be harnessed in an appropriate way by the students' community, and here the role of parents and teachers in guiding the students should be taken into account.

**-Dr. Gowrishankar S., Professor, Department of CSE, Dr. AIT, Bengaluru – 560056**

## Interrupt...ed



'Everything Under Control', read the tag line of Interrupt 8.0 – the annual technical fest of the department of CSE, Dr. AIT. Rightly so, as the academic year was 2018-19.

A year later, as our final year students began preparations to conduct the fest, there was much joy amongst them. After an initial announcement, the preliminary activity of choosing the main coordinators for the event was done. It was now the job of every student in the department to participate uninhibitedly for the grand success of the eagerly awaited event, just like in the past few years.

As the staff coordinator of the event, students would report to me for discussions on how to go about organizing the event. The ideas and the approach were all theirs and I had to just agree or disagree on them. Every responsibility including inviting guests, collecting sponsors, handling finances would be done by

the students themselves! Not to forget, they would receive some suggestions and help from some of the faculty, both teaching and non-teaching too.

On one morning, the student coordinators approached me to tell that they were planning to invite Mr. Tejasvi Surya, the newly elected MP in the 17th Lok Sabha, for the fest. I was a little hesitant as I doubted that he would agree to come. Also, we would prefer someone with much more experience and who was inclusive too. After a few days, the students came back to tell me that they were planning to invite Smt. Sudha Murthy, as chief guest for the day, through a person who she knew well. Being a huge fan of hers, I admire her greatly for everything that she is, I was definitely going to say "yes" with a smile on my face! But, it is a known fact that madam would not agree to attend such events. Nothing wrong in giving it a try, fingers crossed - there

is so much, for everyone, to learn from her.

Alas! This was not meant to be. Very soon, in fact within a few days, people were talking about Covid-19, and the final year students, after returning from their industrial tour, were in for an unexpected turn of events. Students were asked to pack their bags and leave for home as the virus had begun to spread in the nearby state of Kerala and our very own Karnataka too! By then, WHO had begun to issue guidelines as to the necessary precautions to be taken to stay safe. As a coincidence, it was Madam Sudha Murthy who, by writing a letter to the government of Karnataka, requested for immediate closure of schools in the city - she probably was aware of the gravity of the impending pandemic. I heard of this on the Kannada news channel tv9.

Suddenly, it was "Nothing Under Control"! Interrupt 9.0 was indeed just a dream

now.

It has been since the 17th of March 2020 that students have not been able to attend or even come to college. Student-faculty interactions are taking place only through electronic medium. Thanks to such advanced technology, we are present for each other, be it online!

Since then, nothing else has happened for me to write anything more! A few words of comfort for our final year students, before I wind up; As Microsoft CEO Satya Nadella said, in one of the videos being circulated on WhatsApp, make most out of the situation, there would be something better waiting for you.

Wishing all the students a very bright future and the very best in life!

Take care. Stay safe.

**-Dr. Leena Giri G.,  
Associate Professor,  
Department of CSE,  
Dr. AIT,  
Bengaluru - 560 056.**

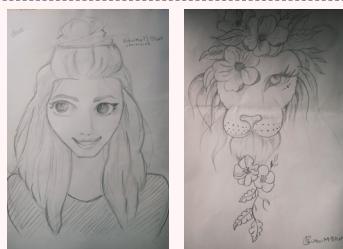
## THE ART IN THE ARTIST



**- Dr. NANDINI . N**



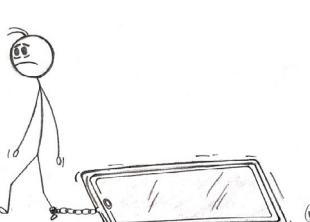
**- DEEKSHITH . S . A**



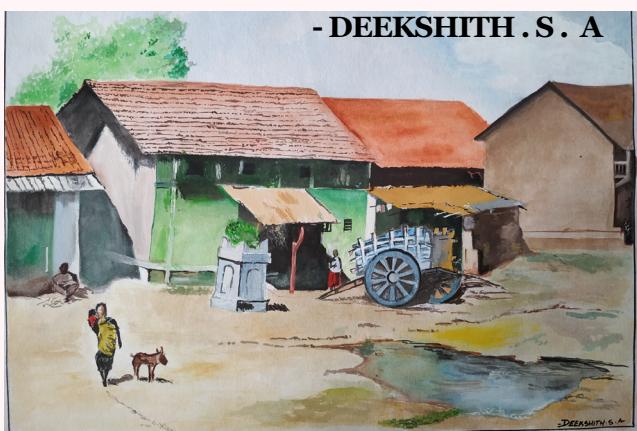
**- SUPRITHA . M . BHATT**



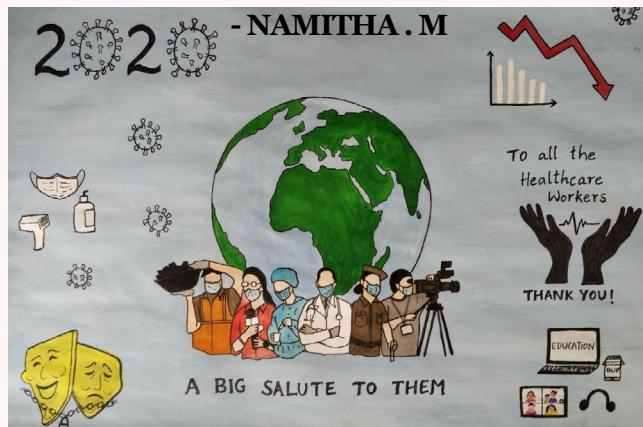
**- NAMITHA RAO**



**- VAISHAK . K**



- DEEKSHITH . S . A



ಗಡಿಯಾರ ಯಾರಿಗೂ ಕಾಯದೆ ತನ್ನ ವಾರಿಗೆ ಒಡುತ್ತಾ ಇರುವುದಕ್ಕೆ ಎಲ್ಲರೂ ಅದರ ಹಿಂದೆ ಒಡುತ್ತಾರೆ ಕಾಗೆ ನೀ ಯಾರಿಗೂ ಯಾವ ಸಂದರ್ಭಕ್ಕೆ ಕಾಯದೆ ನಿನ್ನ ಗುರಿಗಳಿಗೆ ಸದಾ ವ್ಯಯತ್ವ ವಟ್ಟ ನಾಧಿಸುವಾಗ " ಎಲ್ಲರೂ ನಿನ್ನ ಆಧಾರವಾಗಿ ನೋಡುತ್ತಾರೆ"

ನಿನ್ನ ಮುಂದೆ ಹೊಗಿ ಹಿಂದೆ ತೆಗೆಳುವ ಜನರು ಸಾಮಾನ್ಯವಾಗಿ ನೀ ಕಂಡುಹಿಡಿಯಲು ಕಾತುರನಾಗಿಯೆ ನಿನ್ನ ಮುಂದೆ ತೆಗೆಗೆ ಹಿಂದೆ ನಿನ್ನ ಬಗ್ಗೆ ಹೊಗೆಳುವ ಷ್ಟೈಲಿಸ್ಟು ಕಂಡುಹಿಡಿಯಲು ಹೊಂಬ ವ್ಯಯತ್ವ ಪಡುತ್ತ ಅಮ್ಮೆ ಎಂದು ಕಂಡುಹಿಡಿಯೆ "

ನಿನ್ನ ಕಂಗಳು ನೋಡಿದ ವರಿಸ್ತೀತಿ ಮೇಲೆ ಬಾರಿ ಕಂಡೆಲ್ಲ ಸುಧಾರಿಸಿಕೊಳ್ಳಲು ಹೊಂಬ ಸಮಯ ಕೊಡುವೆ ಅದೇ ಕಂಗಳು ನೋಡಿಯವ ಫಂಡನ್ ಕಂಡೆಲ್ಲ ಅದನ್ನು ಹೇಗೆ ನಿಖಾಯಿಸಲು ಯೋಚಿಸಬೇಕು ಹೊರತು ಹೊದಲು " ಬಾರಿಯಂತೆ ನೋಡುವುದು ವ್ಯಘರಭಾಗ "

ನಷ್ಟ ದಾರಿದ ತುದಿ ಹಿಡಿದು ಸೆಳಿಯಿ ಚೆಕ್ಕ ರಂಧ್ರೆಯಿಂಳಿಗೆ ಕಾಳಿಯ ಸುತ್ತೆ ವಾತಾವರಣ ಮರಿತು ಗಮನ ಕೊಡುವೆ ಕಾಗೆ ವಿದ್ಯೆ ಎಂಬ ದಾರಿದ ತುದಿ ಹಿಡಿದು ಸೆಳಿಯಿಂತಹ ವಯಸ್ಸಿನ ರಂಧ್ರೆಯಿಂಳಿಗೆ ಕಾಕವಾಗಿ ಆರ್ಥಿಕ ಸ್ಥಿತಿ " ಗಮನ ಕೊಟ್ಟರೆ ಡೇವನವ್ವೇ ಅರಿಯಿರೆ ಬುಂಬುವೆ "

- VIGNESH . G

cannot control themselves and are addicted to social media. Addiction to social media has many serious effects, including poor study habits, living away from reality and bad health. First, addiction to social media makes the youth have bad grades in studies. Everyday students come to class, but they won't focus on studies. While their professors are teaching, they will be busy using the cell phones to surf Facebook, WhatsApp etc. They always check their cell phones every five minutes to see what is going on in social media. Moreover, addiction to social media can cause depression in the young. When the young use social media, they will see others on it. If the young sees others better than them, and they also feel ashamed of themselves. They wonder why they can't be excellent, talented or beautiful like others. Therefore, they feel under pressure, stress and depression. These mental problems cause the young people lose their mind and eventually, choose death. And at last but not least, using social media too much will have an impact on health. Because the young are addicted to social media, they will go to bed late. Staying up late is really harmful for the health, especially the brain. If the young don't sleep enough, their health will be affected seriously by losing weight or always feeling tired. Their brains will not work effectively and they will be in sleepy condition.

- LIKITH R

### WRITING CODES IN A PYTHONIC WAY

A problem can be solved in many different ways however while solving a problem in Python it is always advised to solve it in a Pythonic way.

#### Identify if all the items of a list are identical:

The problem is to find if all the elements of the list are identical. A non-pythonic approach is to compare each element of the list to the key element or the first element and return True if all the elements are equal to the key/first element else return False which is a good solution if a list is small say the length of the list is 5.

A pythonic approach to this problem would be using:

#### • Using all() function:

The all() function returns True if all items in an iterable are true, otherwise it returns False. If the iterable object is empty, the all() function also returns True.

#### • Using set() function:

The set function returns the list with unique list elements. So, if the list has identical Items then set function returns a single ton set.

#### • Using count() and len() function:

The count() method upon list returns the frequency of the item in the list. If the frequency of the key/first element in the list is same as the length of the list then, all the items are identical.

#### 2. Identify if there is a duplicate item in the list:

The problem is to find if there is at least one list item with a duplicate entry.

A non-pythonic approach is to compare each element of the list to the key element and return

True if more than one element in the list is equal to the key element else return False, which is a good solution if a list is small.

A pythonic approach to this problem would be using:

- Using len() and set() functions: If the length of the list is greater than the length of the same list but with unique items then there are duplicates, evidently. Otherwise, both the lengths would be equal.

#### • Using any() function and count() functions:

any() function to similar to all() will return True if any one list item is True or returns True from the function applied on it. In this case, if any one list item's count is more than 1 then there is evidently a duplicate entry.

#### 3. Generate a new list from a given list:

The problem is to generate a list from a given list of elements. For example, generating a list of squares from a list of elements. The non-pythonic way to solve this problem would be to iterate through the list of numbers and append the value to a new list and finally return the new list of squares.

Pythonic way would be employing list comprehensions can make it more readable, declarative and faster as well. However, it is good to adopt list comprehensions in combination with functions like map(), filter() and zip().

So, when coding, especially in Python it is indeed important to refactor our code to be more Pythonic.

- SHASHANK M KADIWAL

### EFFECTS OF SOCIAL MEDIA ON YOUNG GENETARTION

In modern life, social media is developing fast. It is used by many people all over the world. It is very popular among the young. However, there are many young people who

**CSE Teaching Staff****UG Programme**

<b>Sl.No</b>	<b>Name of the Staff</b>	<b>Designation</b>
1	Dr. Siddaraju	Professor & HEAD
2	Ms. Asha	Associate Professor
3	Dr. Leena Giri . G	Associate Professor
4	Dr. Y.S.Kumaraswamy	Research Professor
5	Ms. Asha Rani . K . P	Assistant Professor
6	Mr. Suresha . D	System Analyst/Asso Prof.
7	Mr. Praveena . M . V	Programmer/Asst. Prof
8	Dr. Mary Cherian	Professor
9	Dr. Gowrishankar . S	Professor
10	Dr. Harish . G	Associate Professor
11	Dr. Smitha Shekar . B	Associate Professor
12	Ms. Veena Potdar	Associate Professor
13	Mr. Srinivasa . A . H	Associate Professor
14	Dr. N . Nandini	Associate Professor
15	Ms. Asha . K . N	Assistant Professor
16	Ms. Arathi . P	Assistant Professor
17	Ms. Vinutha . M . S	Assistant Professor
18	Ms. Madhu . B	Assistant Professor

<b>Sl.No</b>	<b>Name of the Staff</b>	<b>Designation</b>
19	Mr. Harish Kumar . H . C	Assistant Professor
20	Ms. Jayalakshmi . K	Assistant Professor
21	Ms. Uma . K . M	Assistant Professor
22	Ms. Pushpaveni . H . P	Assistant Professor
23	Ms. Sowmya . C . L	Assistant Professor
24	Mr. Vinodkumar . K . P	Assistant Professor
25	Mr. Chidanandan . V	Assistant Professor
26	Ms. Rashmi . N	Assistant Professor
27	Ms. Lavanya Santhosh	Assistant Professor
28	Ms. Veena . A	Assistant Professor
29	Ms. Sangeetha . G . M	Assistant Professor
30	Ms. Shalini . N	Assistant Professor
31	Ms. S . K . Mamatha	Assistant Professor
32	Ms. Tejaswini . K	Assistant Professor
33	Ms. Vinutha . H	Assistant Professor
34	Mr. Ravikumar . J	Assistant Professor
35	Ms. Shanmuga Priya . R	Assistant Professor
36	Mr. Revanasiddappa	Assistant Professor

**PG Programme**

<b>Sl.No</b>	<b>Name of the Staff</b>	<b>Designation</b>
1	Dr. R.Prabha	Professor
2	Dr. K . R Shylaja	Professor
3	Mr. Sham Shekhar . S . Patil	Associate Professor

**Non-Teaching and Technical Staff**

<b>Sl.No</b>	<b>Name of the Staff</b>	<b>Designation</b>
1	Mr. Lokesh . K . S	Foreman
2	Mr. Balaji . M	Operator
3	Mr. Chikkamuniyappa . M	Operator
4	Ms. Shalini . B . N	Instructor
5	Mr. Anandkumar Naik	Computer Maintenance Engineer
6	Mr. Sathish . C	Instructor
7	Mr. Puttaswamaiah	Helper
8	Mr. Hari Babu . M	Helper

<b>Sl.No</b>	<b>Name of the Staff</b>	<b>Designation</b>
9	Mr. Byrahanumaiah	Helper
10	Ms. Jayalingamma . S	Helper
11	Mr. Narayananmurthy . M . S	Helper
12	Mr. K.Anantha	Helper
13	Mr. Mohana . R	Mechanic
14	Mr. Thapasaiyahraju	Helper
15	Mr. Appaji	Helper
16	Mr. Sundaresh . P	SDC

**Call for PRAJNA - Newsletter, Dept. of CSE**

PRAJNA is seeking your contribution to the half-yearly Newsletter. We invite our staff members and students to submit articles or announcements that fits into the following categories:

- Awards/Recognitions
- Major articles – 3/4th of A4 Page
- Short articles, Stories – ½ of A4 Page
- Inspirational Quotes
- Any other information you would like to share
- Articles written in Kannada and English are accepted

**Guidelines for Contribution**

1. All articles should be submitted in Word format.
2. Section headings should be included.
3. You are strongly encouraged to include the images to illustrate your message.

**Newsletter Deadline**

Please submit your contribution to [csenewsletter@dr-ait.org](mailto:csenewsletter@dr-ait.org) before Nov 20th 2020.

Design & Layout  
DEEKSHITH S A  
4th sem A