



## Connecting Thinkers...



It has been about four months now that the World has been dealing with uncertainty, anxiety, instability, and yet no one knows what the future will look like, in the short or long term. Everyone is talking of the 'new normal', but do we even know what it is? Does the new normal mean working from home more often, or shifting everything online and making abundant use of E-resources, or cutting down on our luxuries of entertainment, shopping malls and travel, and learning to live with 'essentials'? We feel that the new normal means 'Acceptance' of the present situation and 'Trying to Adapt' so that we can move on with our lives making the most of the situation. Most of us now have passed the phase of trying to make sense of the situation, and are carrying on with our daily chores as best we can. Many places of work have opened up, with staggered attendance and physical presence of employees. Others have shifted the bulk of their working online, with a lot of back-end support from technicians, administrative staff, and management.

JAIN (Deemed-to-be University) is one of such organisations. As most of you would know, we were one of the first educational institutions in the city to start online classes at all levels including M.Phil and Ph.D. Soon, we started the research colloquiums and Ph.D Viva-Voce examinations online, and were quite successful in attracting scholars, faculty members, and even external examiners to attend from the comfort of their homes whether in India or abroad. We also experimented with other formats of engagement with faculty and scholars by organising Faculty Development Programmes, and Webinar Series on varied topics, at almost all departments of the University. However, the examinations kept getting delayed in the hope that the situation would get better and we would be able to hold the examinations face-to-face without much disruption. That wasn't meant to be.

The University has always been a step ahead in innovations, and that is what led us to hold all of our semester-end examinations online, including those for the research degrees. As an unprecedented event, we also held our entrance examination for new batches of students, and research scholars online. For the first-year research scholars our faculty members re-worked the question papers into individual take-home open-book assignments, to be submitted within 48 hours of receiving it. All questions and assignments were customised for each paper and each student, and the questions were modeled to be more application-based. To give an example of the enormity of the task at hand, our Research Methodology paper was customised individually for each of the 170 scholars to minimise instances of 'discussing the answers and writing together' among the researchers. Now that the written assignments have been completed and submitted, we are also holding vivas for all scholars and subjects on the Zoom platform in the presence of guides and external examiners, to note the scholars' preparedness in each paper.

'Acceptance', 'Adaptation' and 'Innovation' are extremely important skills for a researcher, and JAIN is ensuring that our researchers get a taste of that from the beginning.

<b>Inside this Issue</b>	
<i>Guide's Column</i>	<i>Pg 2</i>
<i>Article by S. Sivaram</i>	<i>Pgs 3 and 4</i>
<i>Article by Mohammed Aftab and Poetry by Tulsi Chhetry</i>	<i>Pg 5</i>
<i>Article by Krishanu Bhattacharya</i>	<i>Pg 6</i>
<i>Article by Nasira Banu</i>	<i>Pg 7</i>
<i>Article by Kakali Roy Chowdhury</i>	<i>Pg 8</i>
<i>Article by R. Sheela</i>	<i>Pg 9</i>
<i>Article by Sunil Kumar R.</i>	<i>Pg 10</i>
<i>Achievements, Publications and Alumni Achievements</i>	<i>Pg 11</i>

## Guide's Column

### Possibilities of e-Research: An Engineering Perspective



e-Research (Electronic Research) encompasses the use of information and communication technology to facilitate research. Such type of research makes use of internet-based tools and techniques. Internet-based research has made it possible for researchers to study topics that could not be researched, using traditional methods. It also allows researchers to gather information from a wide population at a lower cost; for example, by using online surveys, questionnaires, interviews, etc.

However, e-research does have a few drawbacks. It would be difficult for researchers to verify or identify online participants for a study, and control the research environment. This is because the internet-based research is from various settings across the globe, and collecting an unbiased sample that represents all segments of the population may become difficult. Also, all people may not have access to the internet at all times, and may not be able to connect together when the researcher requires.

E-Research has gained significant amount of attraction and it serves as the backbone for undertaking collaborative research. Computers and related electronic resources have come to play a central role in education. Electronic information sources are becoming more and more important and useful for the academic community. University academics are a unique population and rely on recent and timely information. Electronic resources are now used more often than print resources.

Most of the engineering students face the problem of not getting their questions answered in class or having no idea about the topic being taught or wishing to explore new opportunities. E-Learning can make the difference, and can help in filling the gaps in knowledge and develop new products while improving organisational efficiency and growth. E-Learning makes the content available for students digitally. Engineers can learn easily from anywhere, anytime, instead of only relying on physical copies of books. The other advantage is that e-learning uses visual content such as videos or 3D diagrams to help explain the content better.

The main purpose of e-research is to provide information instantly. Engineers using e-research method can contribute to development in different fields, and get instant results. Today e-research is giving this opportunity to all the specialisations to contribute effectively in their fields and bring tremendous change in the society.

*Most of the engineering students face the problem of not getting their questions answered in class or having no idea about the topic being taught or wishing to explore new opportunities. E-Learning can make the difference.*

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## Continuing the curiosity during COVID-19 lockdown: Fifteen useful lessons from Cosmos, Chernobyl, Contact, Carl Sagan, and Charles Darwin

*“Mutt: I don't understand. Why this legend of a city of gold? Indy: The Ugha word for 'gold' translates as 'treasure.' But their treasure wasn't gold, it was knowledge. Knowledge was their treasure.”*

– Dialogue from the movie: Indiana Jones and the Kingdom of the Crystal Skull, 2008

Plausibly, many of us must have felt how wise this assertion was. Knowledge is indeed a treasure as life's evolution hinges on it, and the performance potential of a brain counts on it. All of us have our way of acquiring it from conversations or manuscripts or novels or movies or TV series, but success often depends on sustaining the curiosity. If we talk about the future of technology, no one can overlook movies such as *2001: A Space Odyssey* (1968) and *Minority Report* (2002), which were ahead of their time. If we recall the movies *Outbreak* (1995) based on Richard Preston's non-fiction book *The Hot Zone* and *Contagion* (2011), we could see similarities to the recent pandemic. We recognise that knowledge and that 'eureka moment' can come from any direction at any time and from any source.

One of the primary impetus for my aspiration to do a Ph.D came from this dialogue of the Steven Spielberg movie quoted above. Episode 10 'The Edge of Forever' of the TV series *Cosmos: A Personal Voyage* hosted by Carl Sagan and telecasted in 1980, provided a direct inspiration to my research topic. It curiously dealt with Hindu Cosmology and highlighted the skeptic inquiry illustrated in the Nasadiya Sukta of Rig Veda. Insight to orientate my doctoral dissertation towards a Science and Religion Dialogue came from Dan Brown's novel *Origin*.

To sustain my curiosity, I gifted myself with opportunities of watching two TV series, a movie and reading two books in the time gained during the COVID-19 lockdown. Needless to emphasise, how indispensable is the habit of taking notes when we hear or see something strikingly relevant for our inquiry – be it in classes or seminars or workshops or watching a movie or reading a novel. The following article is an attempt to share the knowledge could synthesise when reflecting upon the notes I had taken. Indeed, one could gain newer insights from these programs and books.

*The habit of taking notes when we hear or see something strikingly relevant for our inquiry in indispensable – be it in classes or seminars or workshops or watching a movie or reading a novel.*

### Cosmos on Possible Worlds – a television series hosted by Neil deGrasse Tyson:

(i) *each episode packs much information* – high information density of a research paper/ thesis is recognised in contemporary academic practice; (ii) *various events in the Cosmos across the age of the universe of 13.8 billion years presented as a cosmic calendar year with each day equal to approximately 30 million years and at this scale the existence of modern humans on Earth have been for less than 15 minutes, implicitly evincing profoundness and condescension simultaneously* – an excellent example of how we could represent time or any other parameter in the RoL and data analysis in a succinct and riveting manner that can intellectually induce the readers; (iii) *contributions of many scientists are remembered, and some of their life's events are recounted* – we can draw tremendous inspiration from them who achieved against many odds and may even get novel ideas.

Chernobyl – an HBO Originals drama: Although many criticised episodes were melodramatic and deviated from certain facts, some of the root causes of this accident has a few practical lessons for researchers. (iv) there is no shortcut for sufficient and diligent preparation; (v) methodological aspects of a paper or thesis are as momentous as representation and analysis of data in arriving at conclusions; (vi) thought leadership on the possible impact of the study outcomes can augment the influence of an investigation more effectively.

**Contact – a movie based on Carl Sagan’s novel of the same name:** A movie on the theme of SETI, actually ended up highlighting how tiny, insignificant, rare, and precious humans are, through a brilliant portrayal of challenges faced by a woman astronomer. 'Contact' worked at the crossroads of science, religion, and politics. What is in it for us? (vii) data speaks for itself no matter who, where, and when; (viii) need for lateral thinking during the data analysis phase, so that obscure yet crucial inferences are not missed out; (ix) how entangled one must be with the goal in the pursuit of truth.

**Cosmos – a book by Carl Sagan evolved together with the television series Cosmos – A Personal Voyage:** One of the classic treatises that deserves a place in our library. It narrates the story of cosmic evolution, science, and civilization. This publication is so phenomenal that every paragraph of it packs many useful inputs for our research. Some of them are, (x) this tome is an illustrative example on how to communicate seemingly complex subjects not only understandable and exciting for all but also giving its rightful place among ordinary people; (xi) this work is arguably the best example on how to write cohesively when dealing with subjects as varied as scientific methods, mixing science and philosophy, speculating on the future of science, Sagan's reflections on cosmological, astronomical, biological, historical, and anthropological, matters from ancient to modern times; (xii) *Carl Sagan was a pioneer of Interdisciplinary indagation among sciences as he edited the first modern interdisciplinary journal for researchers studying the worlds of the Cosmos, Icarus, which continues to this day.* – for anyone who aspires to seriously and successfully pursue inter-disciplinarity, Carl Sagan is the perfect role model, and his book, Cosmos is the benchmark.

**Charles Darwin’s The Autobiography:** All the twelve learnings mentioned above must have a fitting culmination, and this book provides just that. Astronomer Neil deGrasse Tyson considers Charles Darwin as the greatest spiritual teacher of thousand years. Understandably so! Top three intellectual enlightenment from this title are, (xiii) success factors are – passion for the subject, inexhaustible tenacity over prolonged consideration, sedulous attitude in gathering and scrutiny of facts, and balancing commonsense, intuition, novelty, and perspicacity; (xiv) this work reveals two qualities that Darwin had and also appreciated in others, imperative for all researchers to have – integrity and simplicity; and (xv) *throughout his life, Darwin saw science as a pathway for a deeper level of empathy and humility. Darwin's knowledge of science drove his compassion to new heights.* – this is probably the most valued lesson all scholars ought to imbibe and follow in their career and beyond.

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**In the Guide’s Column of June 2020 written by Dr. Arathi Sudarshan on formulating a mathematical model for predicting the spread of the pandemic, this Equation was not viewed in the final version of Thinklet as intended, due to a technical glitch. This was an important part of the article and we sincerely apologise for the oversight.**

$$T_{cases} = 1 + t + \frac{(N - 2)[2td + (N - 3)Ct]}{2}$$

## The Moses of Today's Times

Moses is considered a Prophet, religious leader and most importantly the Saviour, the one who freed his people from the slavery and terrible situations. Moses was that light and radiance which shattered the darkest night in the people's life. He was the hope to end the misery of slaves working under the cruel Pharaoh. The Pharaoh built the mountain-sized pyramids, which talked to the skies and wanted to be a new beacon to wanderers of the Egyptian deserts. The pyramids knew that they were painted red from the blood of the masons yet the Pharaoh took pride on them. Moses, the noble soul was the chosen one from God to save its humankind from the atrocities and afflictions.

History is repeating itself, and now we see not one Moses but many. The pandemic of COVID-19 has given rise to many Heroes. Real life villains are now worshiped as real life Gods (Actor Sonu Sood). I would call them the Moses considering the similarities in history and the current times. The migrant workers are no different to the people of Egypt who were brought from Israel as slaves to build the pyramids. The migrant workers of today had their free-will to come here in search of bread and a better life but little did they know what was ahead of them. Many stranded in the lockdown were not able to go back to their homeland with little or no food supplies. Some were at the mercy of other locals who came to their rescue and gave a new life to humanity. The Day of Exodus had come. The migrants soon realised that all the inhabitants of the pyramids (the apartments, houses and structures) they built, did not care about them and were worried about their own safety.

The decision had to be made, either to take the unthinkable journey to the homelands or wait for promises of a better future as promised by the Pharaohs. The exodus had begun, where many followed the parallel roads (rail tracks) to lead them to their homes but little did they know of what was about come, death. "Khana to mil jayega, sahib ek purani chappal dedo" (we will get food, but please give us an old pair of footwear) pleaded some. This article is not merely to highlight the hardships of migrants or to praise the Heroes who helped them but to ask just one question...who really are the current Pharaohs?

*History is repeating itself, and now we see not one Moses but many. The pandemic of COVID-19 has given rise to many Heroes.*

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## तुम याद आते हो

(Mind replays what heart can't forget, in the end all I wanted was "YOU")

उसकी संकरी गली से  
मेरे स्वप्नों के क्षितिज तक  
कोई उम्र के  
ये जाले हटाता जाए, बिखरती बहुत हूं आजकल  
कोई फुरसत से आकर  
फिर संजोता जाए, मृगतृष्णा से कुछ लम्हे हैं  
कोई यादों की स्लेट पर  
सीले हाथ फेरता जाए, इसी जहां के किसी शहर में  
इक उसका मकां  
कोई मेरी मन्नतों के  
ये धागे लेता जाए..

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## Why Responsible Marketing is Key in Times of Pandemic

Marketing function – often an underrated and considered a cost-centered function plays a match-winner’s knock every time we encounter a crisis or a situation like a COVID-19 pandemic. We live in a world where according to critics - media and journalism is dominated by heavyweights of the political industry and the ones with the power. So how do common people get access to some important aspects that revolve around benefit to the society and overall well-being? Below listed are 3 important areas where marketing function has done justice to create awareness for the better.

- ◆ **Educational Sector:** With educational institutions not being able to function, some of the conferencing platforms and online mode of teaching has ensured that the learning and development goals do not come to a stand still. The popularisation of brands in the right channels, and to the right audience has ensured that the stigma related to learning through online resources devices has been overcome.
- ◆ **Healthcare:** We live in a country with over a billion population and our healthcare system is the backbone that keeps all of us in check. What has been incredible in this area is the massive shift that marketers have created in terms of popularising platforms that could help doctors and patients meet, and have the initial conversations from the comfort of your homes. Delivery of medicines, diagnostic tests are all possible today without the need to visit the hospitals, and it reduces both the overburden of hospital administration as well as the patient from risk of getting infected by unwanted viruses.
- ◆ **Emotional and Mental Well-being:** With people not able to meet their relatives and friends due to lockdown and social distancing norms, along with an economic crisis forcing job cuts – there has been lot of virtual connects with near and dear ones, which is very important to keep oneself in a happy state of mind.

*We live in a world where according to critics - media and journalism is dominated by heavyweights of the political industry and the ones with the power, so how do common people get access to some of important aspects that revolves around benefit to the society and overall well-being.*

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*This infographic was sent to us by S. Sivaram, Ph.D Scholar in Cultural Studies to commemorate World Conservation Day on 28th July 2020*

**PROTECTING OUR PLANET STARTS WITH YOU**

- BIKE MORE DRIVE LESS** (Icon: Bicycle)
- reduce REUSE recycle** (Icon: Recycle symbol)
- choose sustainable seafood** (Icon: Fish)
- PLANT A TREE** (Icon: Tree)
- EDUCATE** (Icon: Books)
- WORLD CONSERVATION DAY 28TH JULY**
- Don't send chemicals into our waterways.** (Icon: Spray bottle)
- Volunteer!** (Icon: Hands)
- CONSERVE WATER** (Icon: Water tap)
- SHOP-WISELY** (Icon: Shopping bag)
- Long-lasting light bulbs - ARE A - BRIGHT IDEA** (Icon: Light bulb)

oceanservice.noaa.gov

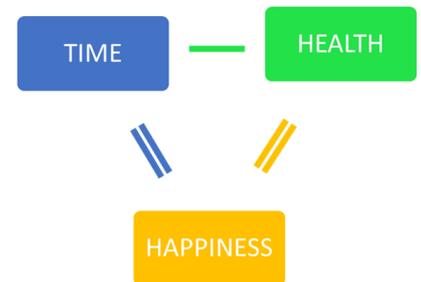
## CHERISH 365 - Pause and Reflect

*This article was initially published in the June 2020 edition of Thinklet. Due to an oversight we did not include the full article by the author. We are re-publishing the full article here and apologise for the earlier omission.*

The first thought that came to my mind when I wanted to write about this is - in a year we have 365 days and 8760 hours. I started doing a simple calculation by just considering 24 hours in a day, out of which we are active for 14 hours keeping in mind healthy habits of at least ensuring that one would get 8 hours of sound sleep. Therefore, we are active for 5110 hours in a year. As we are social beings, we obviously need different engagements in our day-to-day life such as work, family, friends managing daily chores etc. While juggling between all of these we miss enjoying rather CHERISHING moments and experiences of our life.

We encounter many instances in which we get an opportunity to celebrate, such as festivals, birthdays, special occasions of near and dear ones. However, due to our fast-paced life we miss acknowledging what we already have with us – environment, facilities, family etc. It becomes essential to PAUSE and REFLECT.

The current COVID-19 situation has made us realise the importance of things around us and has brought awareness about the significance of each string attached to us to lead our life. I would like to draw everyone's attention towards this model that I have designed (*based on my experience*) which I have been judiciously implementing and following in my life. This has not only provided me an opportunity to stay connected with people around me, but has also ensured I manage every aspect of my life in a structured and seamless way. This triad talks about three elements, which will enable us to CHERISH all 365 days in a year:



**TIME** – Time management is a crucial aspect, which provides us with a structure to ensure things are completed on time, through this we will be content when we hit the pillow at night, and will have mental peace as well.

**HEALTH** – Being healthy plays a major role in our lives. It is our own responsibility to work towards being healthy everyday by adapting an appropriate lifestyle. The saying “Health is Wealth” has been proved over time.

**HAPPINESS** – Managing time efficiently will ensure we do not get bothered with un-attended tasks, taking care of our health will enable us to be active and staying focused. This will also act as a driving force to take care of people around us and make the environment positive. All this will culminate into HAPPINESS. ‘Happiness is a state of mind’ and taking care of time and health will provide us with a steady mind, which will lead to happiness.

Let us not wait for any specific day or date to cherish our life. God has gifted us with a beautiful life with 365 days in a year. We need to CHERISH every moment of our life and make best possible utilisation of time (5110 hours in a year) that we have at hand. In addition, avoid complaining by eliminating negativity, this can be surely achieved by following MY MANTRA of – TIME and HEALTH = HAPPINESS --- CHERISH this for all 365 days in a year

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## George Floyd: Dissent Against Denial of Human Rights: An Observation

*“Injustice anywhere is a threat to justice everywhere”  
-Martin Luther King, Jr.*

The brawling protest over the incident of an Afro-American citizen throttled to death in police custody has created sensations over global media in recent times. The death of a handcuffed ‘black’ man by three ‘white’ policemen has ‘criminalised’ the US police department and has posed a big threat to the Human Rights principles. The media broadcast may limit their focus with the much-popularised term of Racism but factually the protesters include commoners and celebrities irrespective of racial categories. *The dissent and disruption demand conviction of the law enforcer that denied a pleading man’s right to live.* History has ample evidence where discrimination in societies among people instigated social movements, even though they may be geographically distant or dealing with a completely different issue.

A dissent raised in Minneapolis, Tiananmen Square or Place de la Concorde might look like individual incidents, but the principle cause of these consequential movements is the violation of fundamental rights heedless of the type of governance the state has. A contradictory attitude of states is observed when it comes to the context of addressing internal issues and conducting the self in a global platform. A country which is successfully achieving the Sustainable Development goals by fulfilling quality education, decent work, economic growth, and gender equality is reluctant to accept freedom of speech and democratic reforms, here it might be asked, what makes a country powerful...its economy, military power or there is some X factor that exists!!

*A country which is successfully achieving the Sustainable Development goals by fulfilling quality education, decent work, economic growth, and gender equality is reluctant to accept freedom of speech and democratic reforms.*

In the context of civil rights, Acharya Kautilya (350 BCE), the Prime Minister of Chandragupta Maurya had taken the issue in a completely reverse direction. Kautilyan text of Arthashastra merely talks about fundamental rights of people, instead it has vehement support for protecting all fundamental rights to be the principle duty of a King. “Public welfare and happiness of people is the key to a successful governance and effective leadership” is a popular Kautilyan quote often used in the training programs of management and civil services. A book written approximately 2300 years back contains a detailed narration of the contemporary caste-bound indigenous society, where duties, rules and regulations of each caste were strictly monitored. Although beyond the sociological stratum, considering people in general as his children, was a conscious imposition of duty on the King.

To be precise, what might apparently add up some extra credits in a monarchical governance, becomes an in-built feature of a democratic system. Thus civil (and political) rights must secure an individual’s freedom and allow his active participation in the development of the state, otherwise nationals and citizens may only remain as a part of aesthetics of a state.

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**“It is paradoxical, yet true, to say, that the more we know, the more ignorant we become in the absolute sense, for it is only through enlightenment that we become conscious of our limitations. Precisely one of the most gratifying results of intellectual evolution is the continuous opening up of new and greater prospects.”**

**-Nikola Tesla**

## Can Face Recognition Tech See Through Your Mask?

COVID-19!! The buzz-word which is being heard today everywhere, in every context and content. The pandemic situation has taken over the life of every human being. It has drastically changed the perspective of humans towards life. The words mask, social distance, sanitizer, personal hygiene are no longer only words used within a context– they have become priorities. The world has started facing new challenges because of COVID-19. At the same time the pandemic situation has given way for many research questions which are yet to be answered. One of such questions is “Can the Face Recognition Technology see through our mask?”

Today every country insists that their citizens wear mask and maintain social distance to keep away from Corona. Hence it is a big challenge for face recognition systems to match and recognise the right person. Facial detection is one of the practical applications of computer vision and machine learning algorithms. With more people wearing masks to

prevent the spread of the Coronavirus, facial recognition developers are building datasets of images featuring masked faces. Later these datasets are used to develop, upgrade and train facial identification and recognition algorithms. The facial mask covers half of our face, which is the region most important for recognition system to fetch and identify the face details.

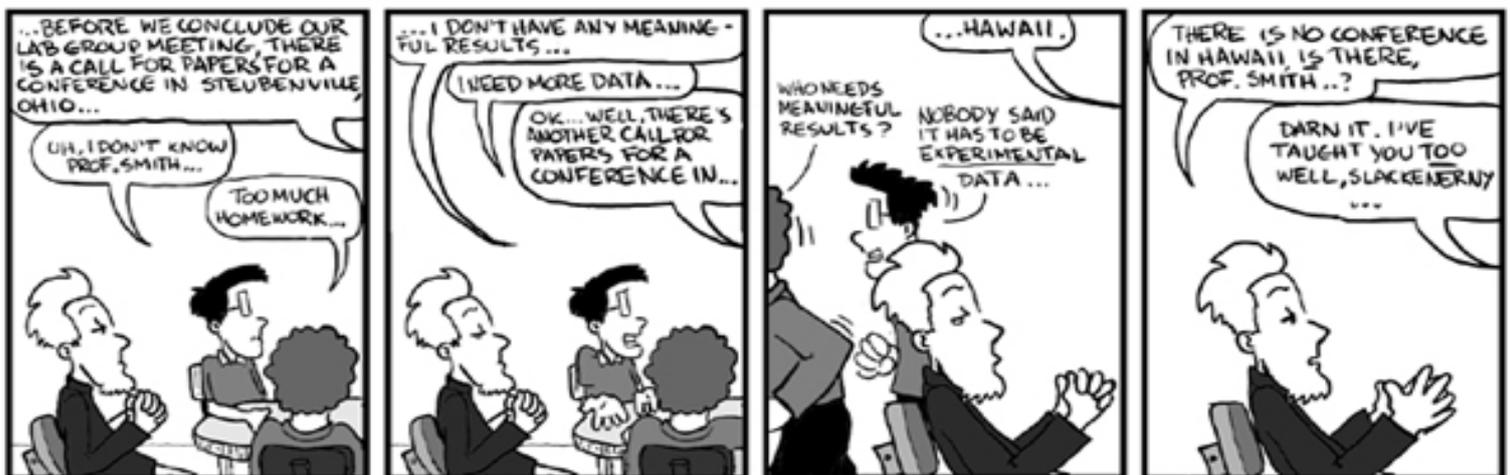
The major part of face biometric data which uniquely identifies each one of us lies in the central region of our face. The actual process of face recognition goes like this- the face image is captured from a scene and then it is compared with image database by calculating the space between the eyes and distance from forehead to chin. Finally, these features are matched with the images in the database. Hence covering the face with mask hides the important details of face.

Accordingly, it is equally important to train the recognition algorithms using the images with masked faces. According to CNET today many face masked selfies are being grabbed from social media to create the database which is used to train the recognition algorithms. Interpol, in one of the articles says that face recognition algorithm already has many flaws like ageing, plastic surgery, effects of smoking and drug abuse. Now this newest challenge has raised the question about dealing with face recognition systems while wearing a mask.

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## Salutation to My Guide: A Truly Positive Leader

As we celebrate Guru Purnima 2020, paying respect and recognising the contribution of one's teacher, I highlight this verse taken from Katha Upanishad, before the conversation between **disciple** Nachiketa and **teacher** Lord Yamaraj:

*“Aum sahanaavavatu | sahanao bhunaktu | sahviryam karvavahai | Tejasvi Naav Adhiitam-Astu |  
Maa Vidvissaavahai !! Om Shaantih Shaantih Shaantih”*

*This sloka highlights the teacher-student relationship that produces ideal results for the student.*

May the Lord protect us both and there be a transference of mental, spiritual and intellectual energies from the teacher to the student through a mutually nourishing (internalisation of knowledge and future enquire of action) relationship. That both together collaborate with vigour and developing student's conviction and self-confidence (result of parting knowledge, effective impartation to the commitment of teacher and acquired by the student). May our study be thorough and fruitful, both become stronger in personality with the knowledge being imparted. May our relationship be pure and harmonious without any animosity, “Om Shaantih” is chanted thrice, referring to seeking protection from “Adhi-daivikam”: obstacles that are beyond our control, “Adhi-bhautikam”: people and surroundings, and “Adhyatmikam”: disturbances stemming from the self.

Dear Sir,

I take this opportunity to thank you and appreciate your contribution to my research journey. The times spent in your association provided me with clarity and direction to explore and achieve my objectives. Through your leadership style, you influenced me to stimulate and enhance my ability to think and approach systematically.

In a world where behaviour is not anchored in everlasting and universal values, the teachers' actions articulate a shared vision. The key to a teacher's effectiveness is emotional intelligence and spiritual quotient apart from subject expertise. It is the teacher's ability to not only focus on the tough behaviour but to unleash the soft behaviour that allows students to experience autonomy to think in a true sense. Effective teachers desire to share a common research vision, build relationships, add value and be mindful which is self-fulfilling rather for any materialistic gains.

*In a world where behaviours are not anchored in everlasting and universal values, the teachers' actions articulate a shared vision.*

Your deep insights in the area of positive psychology, leadership and organisational behaviour gave new dimensions to my approach and ability to explore further in the various stages of my research. The effective tool adopted by you is persuasion to encourage action rather than authority. Importantly, you listened to me patiently, addressed my challenges by understanding my areas of improvement and motivated me to push harder towards my research objectives. I believe these are reflected in my approach towards research and the research outputs are the testimony to your guidance and selfless support in navigating my work.

Once again thank you Sir, for your contribution in shaping my personality. I assure you that your lessons will be cherished and hopefully one day contribute towards the research and students' community as you did to me. You build trust for a lasting relationship (student-teacher), develop strengths, have a long-range perspective, recognise one's contribution and have the ability to translate vision into reality for students. You are truly a positive leader.  
My Gratitude.

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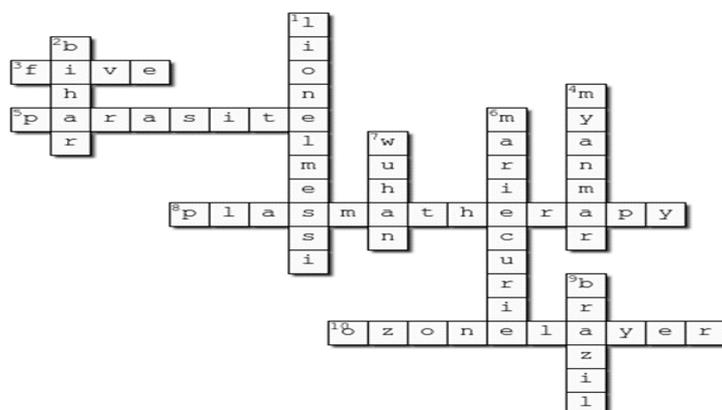
## Achievements and Publications

- **Dr. Shweta Gupta**, Associate Professor, Dept. of Electronics and Communication Engineering, JAIN, has published a chapter titled 'Early Diagnosis and Treatment of COVID-19 with SmartPhone Tracking using Bionics' in a book titled 'Cyber-Physical Systems for COVID-19' published by Elsevier.
- **Gopala Krishna G.T.**, Ph.D Scholar in Mechanical Engineering, published a paper titled 'Analysis of Filler Metal Composition on Weld Dilution of Austenitic Stainless Steel by TIG and MIG Welding' in the *International Journal of Vehicle Structures and Systems*, a Scopus Indexed Journal.
- **Krishna Murari**, Ph.D Scholar in Management, has published a paper titled 'Evolution of the Motivational-Behavior Relationship for Entrepreneurship' in the 'International Journal of Advanced Science and Technology', Vol. 29, No. 7, (2020), pp. 2573-2584 on 6th July 2020.
- **Tania Sengupta**, Ph.D Scholar in Public Policy and Governance, has successfully completed a three-day online workshop on 'Migration and Diaspora Studies' organised by the Centre for Diaspora Studies, Central University of Gujarat.
- **Samhita K.**, Ph.D Scholar in Psychology, with her research guide **Dr. Pooja Varma's** abstract titled 'Mind Wandering and Mindfulness in a Pandemic: Striking the Optimal Balance' got accepted for a prestigious international online conference called 'Unequal World Conference' The conference is to be held in September 2020.

## Alumni Achievements

- **Dr. Piyush Kumar Pareek**, Alumnus in Computer Science Engineering, published a Joint Patent on the topic "IRBC-System: Intelligent Rule-Based Classification Systems to Classify Discrete Sets" on 10 July 2020.

### Answer key for crossword puzzle published last month



Created using the Crossword Maker on TheTeachersCorner.net

#### Across

- Denomination of first paper currency issued by RBI (**five**)
- The most Oscars in 2020 (**parasite**)
- A clinical trial for COVID-19 (**plasmathe rapy**)
- Montreal protocol (**ozonelayer**)

#### Down

- FIFA Best Player 2019 Award (**lionelmessi**)
- Valmiki National Park, Tiger Reserve and Wildlife Sanctuary (**bihar**)
- Pankaj Advani won his 22nd World Billiards Title in 2019 (**myanmar**)
- This lady won Nobel Prize twice in different areas (**mariecurie**)
- First case of novel coronavirus (**wuhan**)
- World's first sustainable bio-fuels economy (**brazil**)

#### Team Thinklet

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ARTICLES FOR NEXT ISSUE SHOULD BE SENT BY **20th AUGUST 2020** OF NOT MORE THAN **250 WORDS**

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