

Department of Computer Applications

Vol-VI (2019-2020)

Mytros

Mind of Young Technocrats & Research Oriented Students

Annual e-magazine

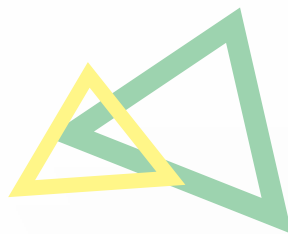


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Message



**Dr. (Col) A Garg
(Director)**

KIET Group of Institutions,
Ghaziabad

“Teamwork makes the Dreamwork”. This teamwork in **“Mytros”** actually proves to be its persuasion. In this era of Globalization of education, the obvious focus is on the quality of education with no single yardstick of quality. A good educational institution strives continuously for sustenance and enhancement of quality in every field of its activity. I find that this magazine is committed to the practice of academic freedom and encourages students' creativity, collective teamwork & enthusiasm in the Department and provides a platform to showcase the talent of MCA students in a much wider forum.

I hope all the readers will find it technologically rich in contents that are commensurate with the emerging trends of Industry 4.0.

Message from Director

“A thought that has been enduring in mind when it becomes real; is truly an interesting and exciting experience”

I am quite pleased to learn about the forthcoming issue of **“Mytros” annual e-magazine**, Department of Computer Application [MCA]. No doubt this creative endeavor will bring out an array of artistic and scientific expressions with distinct individual signatures. Obviously, this magazine amply demonstrates communications skills, poetic prowess, imagination, creativity, humanism, technical competence of our students.

I do appreciate and applaud the editorial team for their successful completion of this tedious yet daunting task of putting together the myriad thoughts of our students. Creativity and Inspiring Innovation are two of the key elements of a successful education and this magazine is the perfect amalgamation of both. May all our students soar high in uncharted skies and bring glory to the world and their profession with the wings of education!

I extend my best wishes to all the contributors for this magazine and wish the Department to keep their momentum and continue to enhance the standards.



**Dr. Manoj Goel
(Joint Director)**
KIET Group of Institutions,
Ghaziabad

Message from Joint Director

Message



Dr. Ajay Kr. Shrivastava
(HOD & Professor)
Department of
Computer Applications

"Every Challenge is an opportunity to shine", The Department of Computer Applications (MCA) is a firm believer of this quote. As, we all are facing the challenge of lock-down due to pandemic of Covid19. The Department of Computer Applications(MCA) is taking full advantage of lockdown by exploring the possibilities of online teaching-learning activities. Now, boundaries of academic hours are broken and students & teachers both are working 24x7 for the common goal of Department- to produce best professionals of software world. These continuous efforts of students and faculty members are producing fruits for session 2019-20 in the form of best placement records for MCA students in AKTU, very good academic results, industry collaborations like Salesforce, establishment of Centre of Excellence(CoE) for Machine Learning & Big Data Analytics where students doing industry oriented projects, outside project participation, achievements in sports and many more. Our collaborations with online platforms like Courseera enabled our students to complete online certifications free of cost in this period.

MYTROS is an annual e-Magazine of the Department. It is written, edited, designed and published by students. It provides an opportunity to students to improve their writing and editing skills. I wish a good luck to all the students for the sixth issue of MYTROS.

Message from HoD

As always believed:

"A magazine-a relevant one-should be a sound, not an echo." And our students do justify that .

Again a team of devoted students is ready with the Departmental Magazine Mytros. Good things remain good only because they are always scarce. I am glad to pen for this wonderful magazine as an appreciation of the commendable efforts put forth by the team. The annual departmental magazine, MYTROS, is a platform for students to showcase their creative abilities, through articles and poetry. It also involves designing the cover and layout too.

Definitely this will help our students a lot in terms of technology as well as it will enhance their writing skills also. The efforts taken to bring about innovative content is appreciable.

I extend my greetings and convey the best wishes to the whole team for this production.



Mr. Rabi.N Panda
(Associate Professor
& Addl. HOD)
Department of
Computer Applications

Message from Addl. HoD

Message



Suruchi Sinha
MCA (II/A)



Apoorva Srivastava
MCA (II/A)

Welcome to the sixth issue of our Departmental magazine, MYTROS 2020.

First of all, we would like to express our sincere thanks to Mr. Prashant Agarwal Sir to give us an opportunity to work as an editor for MYTROS'20. Also, Thank you to Director Sir, Joint Director Sir, HoD Sir and Addl HoD Sir for their inspiring messages.

This year marks a milestone in the history of the journal because it comes with some important enhancements. The first enhancement is that the journal will consist of a section named Info Bee where topics like COVID-19 and TAWANG are discussed.

We also changed the skeleton of the journal to reflect the changes. We tried our best to share glimpses of all the small and big events held in our department in the past one year.

We also thank all the authors that came forward and showed their active participation with their amazing articles. This could have not been possible without your efforts. Thank you all again.

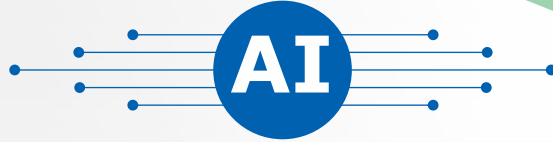
We hope that you find this magazine worth reading.

Message from Editorial Team



Editorial Team

Societal Benefits of



Aishwarya Mittal
MCA (IV-C)

From Cortana to autonomous vehicles, the rapid progress of AI development is showing no signs of slowing down. Artificial intelligence can encompass nearly anything, from search engine algorithms to robotics. Here's a more detailed definition of AI: Artificial intelligence (AI) is an interdisciplinary branch of computer science that builds smart machines. These machines are capable of performing complex tasks, even ones that require human intelligence. AI uses a variety of approaches, such as deep learning and machine learning, to make jobs more natural to do.

These days, billions of people across the globe interact with artificial intelligence on a regular basis through their computers, phones and other smart devices.

It has revolutionized the technology landscape that millions of people reap benefit from.

Let us understand the benefits it has offered to our society.

Healthcare

Healthcare has always been one of the focal points of AI. It boasts of a huge amount of data to populate and analyze based on which computational sophistication has been improved by designers.

AI tools can predict substantial challenges lying ahead in advance and offer resources for patient education and proactive interventions, thus helping people to maintain their wellbeing.

Transportation

Transportation is a field where artificial intelligence together with machine learning has produced major innovations.

Autonomous vehicles like cars, buses, trucks etc use advanced capabilities that offer features like lane-changing systems, automated vehicle guidance, automated braking, use of sensors and cameras for collision avoidance, and analyzing information in real time by using AI, among others.

Prediction of natural disasters

There's an AI model that can almost perfectly guide you what the weather will be for the next couple of days, which was almost unimaginable before the advent of artificial intelligence.

There's also an incredible system that can predict, based on the simulation of tectonic plates of the earth, the time of volcanic eruptions. There're AI-enabled projects that gather data for magnetometers of the phone and send it for analysis based on which successful predictions about earthquake can be made.

Farming

Farming is another sector that has been heavily benefited from AI. This is an industry full of challenges like competition for natural resources, plateauing agricultural productivity, and rapidly growing population.

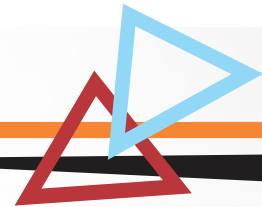
Real-time data analytics help farmers to maximize their crop yields and thus, in turn, their profits too Smart cities

Smart city applications often use artificial intelligence to improve environmental planning, service delivery, energy utilization, resource management, and crime prevention, among others. Some of the top applications include intelligent traffic signals, e-governance applications, smart meters for utilities, Wi-Fi kiosks etc.

Overall lifestyle

With the increasing implementation of AI in different segments of society, overall lifestyle of the humans gets enhanced. Some of the mundane tasks such as data entry or answering emails can be performed by intelligent assistants, freeing up precious time for humans to focus on creative aspects of the work. Smart homes can be made capable of providing better security and reducing energy usage that would greatly promote the concept of a greener environment.

Future of Programming



Today, computers have entered in almost every industry. Be it the autopilot in an aircraft or digital speedometer in your bike, computers in various forms surround us. Gone are the days of pen and paper. Computers are most useful by programming languages.

Python grows quickly in today's Era . Python might not had bright years in the past since its launch in 1991 but it has seen a constant and remarkable trend of growth in the 21st century. It is widely accepted as the best programming language to learn first. Python is fast, easy-to-use, and easy-to-deploy programming language that is being widely used to develop scalable web applications. Python provides excellent library support and has a large developer community.

Python is one of those programming languages which is easy to use and write. In comparison to other general purpose languages, it is extremely convenient to use python.

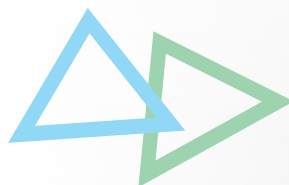
Features of Python

- ❖ Creating and using classes and objects is easy thanks to OOP characteristics
- ❖ Extensive library support
- ❖ Focuses on code readability
- ❖ Has the ability to scale even the most complex applications
- ❖ Ideal for building prototypes and testing out ideas faster
- ❖ Open-source with an ever-growing community support
- ❖ Provides support for a multitude of platforms and systems
- ❖ Very easy to learn and use
- ❖ Anywhere that data analysis is required, Python and its diverse libraries shine

Many top companies have developed successful apps by using it. This is why it is considered the language of today and the future.



Nitin Sharma
MCA (IV-B)



Companies using python

Google: The company that needs no introduction, Google. Its video platform Youtube is all written on python.

Instagram: An image sharing platform was a simple language developed on Django (Python framework) before it was acquired by Facebook.

Netflix: The video streaming platform offer suggestions to its users constantly. Do you know what makes this possible. Yes, it's THE PYTHON!.

Facebook: According to the official blog from facebook, 21% of facebook codebase is based on Python.

Do you know what actually makes python so successful and ready for future?

It's the support it provides to the latest technologies which have brilliant future prospects:-

- ❖ Data analysis
- ❖ Web development
- ❖ Artificial Intelligence
- ❖ DevOps/automation scripts/system administration
- ❖ Machine learning
- ❖ Web parsing, crawling, and scraping

From moderating social networks to driving cars, trained neural networks are doing everything. The field has moved forward incredibly in recent years due to quickly increase in processing power. The potential for Python is vast, and not yet even close to fulfillment.

We rather believe it's crucial to understand that trends might be changing, and there's a room for discussion left for everyone.



Blockchain and its future impact on Educational Institutions

The term "**blockchain technology**" typically refers to the transparent, trustless, publicly accessible ledger that allows us to securely transfer the ownership of units of value using public key encryption and proof of work methods. The technology uses decentralized consensus to maintain the network, which means it is not centrally controlled by a bank, corporation, or government. In fact, the larger the network grows and becomes increasingly decentralized, the more secure it becomes. The potential for blockchain technology is not limited to bitcoin. As such, it has gained a lot of attention in a variety of industries including: financial services, charities and nonprofits, the arts, and e-commerce.

Many applications of blockchain in education are partnership platforms, copyright and digital right protection and innovation and learning platform but one of the best application is innovation and learning platforms. For instance, the Education ecosystem platform is one of the first projects that use blockchain to connect academicians, students, developers and content producers. The colleges use same principal to create internal ecosystems to get access to study material and share their project ideas. The internal tokens can be used to download books and request materials. These tokens are earned when users make contributions, invite new participants, and watch videos. Content creators receive reward for their activity, and when people interact with their content, they get new tokens. Such a level of interactions can bring obvious benefits to the education system as a whole.

To sum up, blockchain can improve the education system in many ways. This technology is perfect for secure information storage, sharing and networking. It fills the gap in credentiaing, copyright protection and efficient communication. These standard process will surely benefit from blockchain very soon.



Today we witness the development of smart classrooms and distanced learning supported by modern technologies. Chances are blockchain will become an integral part of education in the years to come. The potential impact of this technology and possible improvements of the learning process it might bring and blockchain has huge impact in future on educational institutions. Institutions see blockchain as a perfect technology to store, track and use students credentials. Blockchain diplomas will allow learners to get fast and convenient access to their records and share this information with potential employers. As such, employers won't have to contact universities and colleges to get information about students' accomplishments. Getting a direct link from a student will save their time and give a full picture of a candidate's skills and background. The best thing is that the records won't be locked up but belong to learners. They will easily use these records at any time as long as they need them.



Vidhi Vats
MCA (IV-A)

The Future **of Machine Learning(ML)**



Bhanu Pratap Singh
MCA (IV-A)

Machine learning is a trendy topic in the age of Artificial Intelligence. The fields of computer vision and Natural Language Processing (NLP) are making breakthroughs that no one could've predicted. In this article the focus is how ML will progress towards the future from perspective of model building.

Computer Vision

Since computer vision swells its impact in the human world, there are numerous things to contemplate on how it will alter the way people see their lives and how they live it. The future of computer vision will see it perform a wide array of functions with the help of additional researches on fine-tuning of technology. The technology will not only be easier to train but also be able to discern more from images than they perform now.

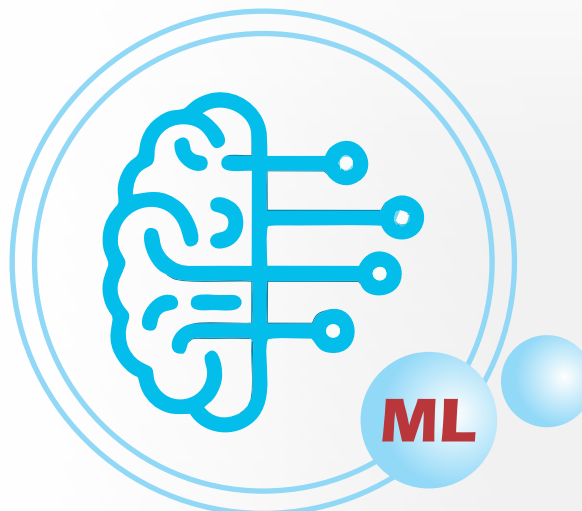
As a rising market, computer vision technology is firmly connected to visual and augmented reality (VR and AR). Indeed, the market players in recent time have a keen interest in the amalgamation of VR and AR. Such attention is growing at a rapid place which is being reflected in the introduction of many state-of-the-art technology products.

Natural Language Processing (NLP) and Transformers

Language models are algorithms that help machines understand the text and perform all kinds of operation. According to JEFF DEAN, a lot of progress has been made in language models.

The BERT model, the latest NLP model that GOOGLE announced has been put to use in their search ranking algorithms. This helped enhance the search results for myriads of different queries that were previously difficult and provide better and more accurate answers. These Transformation-based models for translation are showing spectacular gains in the BLEU score (translation quality). So, ML architecture that utilize transformation such as BERT are increasing in popularity and functionality.

Machine Learning



Innovation

Intelligent

Vehicle



Shivam Nerwal
MCA (II-A)



During innotech 2019, my friends and me made an object following vehicle.

It is a model of intelligent vehicle consisting ultrasonic sensor, arduino, L293d motor drivers and servo motor and chassis.

This model follows the objects when they came in the range of ultrasonic sensors.



"Science is nothing but perception"

Inspiring from this our group worked on a simple project but try to increase its applications so that we can able to solve the problems of real world.

Some of its applications are:

1. After some rectifications this model can be used as a human following suitcase, this type of products exists in market but our main focus is to minimize the cost and in innovation of the whole process.

2. One of our ideas gets a lot of appreciation by judges and people present in the event is that:

We are thinking to implement machine learning in the model which enables it to learn the path shown once and after that it can autonomously perform the specified tasks like in some places it is very tough for humans to go and perform the activities such as construction sites, mines etc. In such places we can utilize it.

There is a very famous saying:

"The computer was born to solve the problems that did not exist before"

We are also analyzing the basic problems arising such as a great example is how nations like China use the technology to fight against COVID-19, China developed an autonomous car which is proved very effective in curbing and preventing the spread of this global epidemic.

That remote-controlled car screens people, recognizes faces and makes deliveries of products.

And we all know:

"Ideas are like air for innovators without them they can never fly"

From that above case-study we also get some new ideas to modify our project and deploy it in the real world.

We are all in the learning phase and these type of projects help a lot that how to practically apply what we are learning.

"Every great advancement in science issued from a new audacity of imagination"

These type of activities spark to the flame of that curiosity and imagination which is the fundamental prerequisite to survive in today's tech-savvy era. We are very thankful to our department and college for giving such type of opportunities and nurturing us to work with full of passion in professional world. Hoping for your valuable suggestions at: nerwalshivam@gmail.com.

Thanks a lot.

Smart Parking Using Open CV

About the project:

This project is about a parking system that reduces use of human resources *"Smart Parking using Open CV"*.

We worked on this project to reuse the human resources at the parking site to open/close the gate and maintenance of record id automatic.

This Project is about a parking system that does not require any human resources and allows users to book their parking slot online as a result reduce time and ensure the availability of slots.

This project include Hardware and software part that i.e. Arduino and servo motor for the automatic opening and closing of gate. And camera for the detection of vehicle plates no using Open CV and For security system we used OTP generator App that allows the exit gate to open.

Problem Solved:

As we went to any parking site we found many employees working over there. Couple of people work for the Open and Closing of gates and others used to keep the record. And still this traditional system does not ensure Security system may result in the theft of vehicles.

So, we make the System using OpenCV (computer vision) is used to Extract the Vehicle no and Store in the database for records and verification of vehicle owner. And for the opening/closing of gate (barriers) we used Arduino that instructs the servo motor to the automatic opening and closing of gate.

This project majorly works on the Python i.e. OPenCV library is on python and all transfer of instruction is done on python. And for the security purpose we used the Android that sends the OTP to the user for verification of owner of vehicle.

Description of the project:

We make the System using OpenCV(computer vision)that is used to Extract the Vehicle no and Store in the database for records and verification of vehicle owner. And for the opening/closing of gate(barriers) we used Arduino system that instruct the servo motor to the automatic opening and closing of gate. And for the security purpose we used the Android that sends the OTP to the user for verification of owner of vehicle. Our objective behind this project is to solve the issue of the parking system's use of a high rate of human resources hence increase the parking cost. To meet this objective we use various Hardware and software component, Hardware like Arduino, servo motor, 2 cameras (opening / closing),And in software part we used the OpenCV library in Python and Sql for database, PHP, HTML, CSS for the web portal of booking of parking slot.

Making this project reduces time in getting a parking slot and provides absurdity over the availability of the parking slot and other side it gets the aim to reduce the no of employees over the parking site and ensures the Security of the vehicle.

Through the making of this project and allows users to book their parking slot online as in result reduce time and ensure the availability of slots.

ALGORITHM PROCEDURE:

- ★ Begin
- ★ Input: Original Image
- ★ Output: Characters
- ★ Method: K-Nearest Neighbors
- ★ LP: License Plate
- ★ Convert RGB image to Grayscale
- ★ Filter Morphological Transformation
- ★ Transforms Grayscale image to binary image
- ★ Filter Gaussian for Blurs image
- ★ Finding all contours in image
- ★ Search & recognize all possible character in image
- ★ Crop part of image with highest candidate LP
- ★ Crop the LP from original image
- ★ Apply steps from 6 to 11 again on crop image
- ★ Print the characters in LP
- ★ End

Conclusion:

Scanning the number plate sometimes goes unsuccessful by using the shape analysis method to detect the exact area of the plate. Future extension of this work is to develop character recognition using template matching algorithms. Detecting number plate characters during night times work efficiently but it gets inefficient in case of sunny time.



Manika Goel
MCA (IV-C)



Water Irrigation System Using Iot

The term “IoT” stands for the internet of things, can be defined as the interconnection between the individually identifiable embedded computing apparatus in the accessible internet infrastructure. The 'IoT' connects various devices and transportations with an help of internet as well as electronic sensors.

Agriculture is the major source of income for the largest population in India and is major contributor to Indian economy. In our country, agriculture depends on the monsoons which are not sufficient source of water. So the irrigation is used in agriculture field. Internet of Things is a milestone in the evolution of technology. IOT plays an important role in many fields, one of that is Agriculture by which it can feed billions of people on Earth in future. The objective of this paper is aiming to overcome this challenge, the whole system is micro control based and can be operated from remote location through wireless transmission so there is no need to concern about irrigation timing as per crop or soil condition. Sensor is used to take sensor reading of soil like soil moisture, temperature, air moisture and decision making is controlled by user farmer by using microcontroller. The data received from sensors are sent to server database using wireless transmission. The irrigation will be automated when the moisture and temperature of the field is reduced. The farmer is notified with the information regarding field condition through mobile periodically. This system will be more useful in areas where there is scarcity of water and will be worth efficient with satisfying its requirements. “IOT based smart irrigation system” is for to create an IOT base automated irrigation mechanism which turns the pumping motor ON and OFF pass command through IOT platform.



The hardware and software requirements of this include Arduino UNO, soil moisture sensor, Wi-Fi module ESP8266, Arduino CC(IDE), HMT330, Android studio, MySQL, ThingSpeak and Relay module etc.

Its commercial applications are It is used in agriculture farms to improve plants health and productivity, It is also used in gardens.

Its advantages are Water Conservation , Real-Time Data , Lowered Operation Costs , Efficient and Saves Time , Increase in productivity , Reduce soil erosion and nutrient leaching



I conclude that this system is easy to implement and time, money and manpower saving solution for irrigating fields. A farmer should visualize his agricultural land's moisture content from time to time and water level of source is sufficient or not. IOT based smart irrigation system displays the values of the sensors continuously in smart phone or on computer's web page and farmer can operate them anytime from and anywhere.



Priyam Srivastava
MCA (IV-C)

Expressions

Poem

ऐ मेरे देश की माटी के लाल



कौन बुनता है बुराईयों का जाल?
ऐ मेरे देश की माटी के लाल,
शहीदों की यादों पे मल दो गुलाल।

ऐसे खुशनुमा गुलशन के हो तुम फूल,
जिनकी खुशबू से महकती है धूल।
वक्त की भूलभूलैया में न जाना भूल,
देश का यह क्या हो गया है हाल,
ऐ मेरे देश की माटी के लाल।

सत्य, शांति, सदाचार के हम हैं पुजारी,
फिर छूत अछूत की फेली क्यों यह बीमारी?
फिर भेदभाव ने डस ली कैसे खुशहाली?
क्यों छिन गयी मासूम भुखो की लाली?
कौन बुनता है बुराईयों का जाल?
ऐ मेरे देश की माटी के लाल।

हम ऐसी अमिट अमर कृन्ति लाएंगे,
आतंकवाद को समूल मिटा जाएंगे।
न फिर हिन्दुस्तान के होंगे टुकड़े,
न खलिस्तान, न पाकिस्तान के होंगे झगड़े।
तेरे साहस से घबरा जाए काल,
ऐ मेरे देश की माटी के लाल।



Niharika Maheshwari
MCA (IV-A)



Harshika Srivastava
MCA (II-A)

The World is still

The morning sunshine, it was the
brightest day.

Everything was still as it could've been
But when one and all were carefree
People were confused, the commotion
begin

A virus was amongst us
We have to be aware
Hygiene was the only shield for us
To this demon we can beat the invader
If we all keep our hands completely
clean.

History will remember when the world
was still
People sang on their balconies, in
isolation
But so very much together
In courage and song.

Now that we cannot meet with each other
Now that the world is still
Yet we should not lose hope, and fight
together
Let's pump ourselves, until the virus is
removed.

कोरोना से जंग

कोरोना अपना कहर अब बस भी कर, हमारे चौबारे में।
उम्र गुजर जाती है एक घर बनाने में,
तुझे जरा भी तरस नहीं आता यू सग हटाने में,
हम सब मजबूरी में बौंध चुके तेरी खातिर,
पता ही नहीं चल रहा क्या—क्या हो रहा है इस गलियारे में।

इस कहर में लफजो की हेरा फेरी भी बहुत देखी
बहुत देख चुके आपस में लड़ाई,
सच छुपाकर लोग घर में ही छुपे रहे,
इंसानियत यहाँ कोई काम न आई।

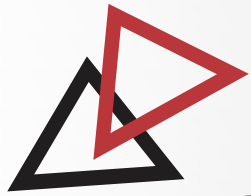
अब बस यही देखना रह गया था बाकी
अस्पतालों में भी मरीजों को लेना कर दिया बंद,
भगवान का दूसरा रूप भी होने लगा यह पापी,
क्या करे वो बेचारा वो भी हो चुका पाबंदी में बंद।
कोरोना बस कर अब तू कहर अपना हमारे चौबारे में।

तेरी वजह मीलों के सफर पैदल ही चल पड़े लोग,
हा वही लोग जिनकी मेहनत से हमें सर छत मिली,
हा वही लोग जिनकी बनाई सड़क को हम इस्तेमाल रहे कर,
थोड़ा तो रेहम खा जा खत्म करदे सबके बीच अपना ये दर।

अब हम ये भी मानने लग गए,
ये मुसीबत कोई बिनबुलाई हुई मेहमान नहीं है।
ये तो किसी बेजुबान की लगी बददुआ है।
बस करो ना अब बस कर अपना कहर हमारे चौबारे में।



Ravi Dutt
MCA (IV-B)



Money

a need or greed

Money can buy food
but not power to digest,
Money can buy a bed
but not a restful sleep,
Money can buy us a book
but not the brain to read,
Money can buy medicine
but not health and laughter,
Money can buy expensive clothes
but not manners, morals and characters,
Money can buy servant
but not a true friend in life,
Money can buy us everything
but not satisfaction and peace.



Kanuka Goel
MCA (IV-B)

On the lonely path of life,
wandering here and there,
going to the place I like,
lies my destiny where.

some good things to do with,
but bad things, I don't care,
nobody looked to what I did,
in the suspicious world of stare

fed up of this hopeless life,
I tried to change my destiny.
but can't the lines of palm avoid strife?
so, better is the essence of eternity.

neither can my destiny be changed
nor can anyone change it
neither can my deeds be rearranged,
nor can anyone can it.

enjoy life with cheerfulness
because unpredictable is life,
make it an aim without a stress
because no one knows,
where my destiny lies.

Destiny



Impact of COVID-19 on Education system



Niranjan Darshan
MCA (II-A)

Now a days whole world is facing a severe health crises due to a virus emerged from the laboratory of Wuhan city in China. The 2019-20 Coronavirus pandemic has affected educational system worldwide. Many countries rightly decided to close schools, colleges, and universities. Doing this has its two faces boon and curse.

Pros of closing are:

For schools
For colleges/ universities
For Faculties/staffs

As we know that health is the basic need for prosperity. If you have good health then you can prosper anywhere at anytime.

The only boon for closure of all the above mentioned while pandemic COVID 19 is the curement which is most important for all to be safe from this Nobel virus is Social Distancing and washing hand regularly while residing at home people can easily and safely take care of themselves and theirs loved ones. Whereas it would be difficult for schools ,colleges, staffs /faculties for arranging its safety measures.

Exploring Toward ICT:

World is currently moving towards the Information and Communication Technology (ICT) but it was seen less in india but now due to closure, all educational organisations like colleges ,universities and schools have explored more ICT enabled teaching system.

Cons of closing are:

Students Become Lonely

It is not only affecting the education system but also sustainable human resources. Lets discuss Is COVID 19 curse for students? The only line will answer this question well in short is **"The students become lonely because of this Nobel virus"**. Lets discuss this, As we know the relationship of students are only with teachers and mentors. Students at their home have their family members but they don't have classmates, faculties, subject teachers, the environment for education like as

there in classroom. There is only the cloud around the students.

As the classroom is going on cloud, they meet friend virtually, have assignments and completing them virtually no one is there to instruct them physically.

Unequal Access of Technology

As we know that education system is the loop of technical and non technical faculties and students, as still many of the nation in the world is not doing well in terms of technology. Surely some of the professors who will be venturing into virtual education for the first time because of this Nobel CoronaVirus will be going online with remote instruction that professor is first time experimenting video conferenced lecture supplemented by email assessments raises the tons of issues from how instructors and colleges treat students evaluation of professor will it be impressive or unimpressive? If not delivered well will be unimpressive.

Time Complexity:

As we know time is money but pandemic of this virus results in the loss of time while continuing online classes as well, students and teachers now have to work double one time for making lectures video and also have to give time to the online meeting this increased the time complexity for both students and teachers as $O(2n)$. The time for rest of the work get lapsed due to which it results in delay.

Unequal access to Resources:

Disturbance or data loss while asking question and giving answer all these factor is essential to note how COVID 19 have impacted on Education System. Lets Support one line which will be the outcome of this closure "It will pressurize not only the students but also the faculty as well as the whole world". As due to lack of resources(like as break in Mobile phone, insufficient speed of internet in area and insufficient amount of internet required for continuing virtual lecture class etc.)for virtual class the students are unable to join their online classes and during examination it will creates a big gap between the students state and syllabus which leads to the pressurization of both faculties and students in completing their syllabus and prepare student for Examination.

Current Reports analysis:

The careers of this year's university graduates may be severely affected by the COVID-19 pandemic. They have experienced major teaching interruptions in the final part of their studies, they are experiencing major interruptions in their assessments, and finally they are likely to graduate at the beginning of a major global recession. Evidence suggests that poor market conditions at labour market entry cause workers to accept lower paid jobs, and that this has permanent effects for the careers of some.

In higher education many universities and colleges are replacing traditional exams with online assessment tools. This is a new area for both teachers and students, and assessments will likely have larger measurement error than usual.

These nationwide closures are impacting over 91% of the world's student population. Several other countries have implemented localized closures impacting millions of additional learners.

According to the report of Indian news channel , COVID 19 spreading capabilities are from two to three persons at once by one, it become pandemic because no country till date (18-April-2020) is able to make drugs to get rid of this pandemic but still our researchers are doing well for its drug.

Conclusion:

So for reshaping Education we should co-operate with government , teachers and should give our best and by having patience we should try to learn the lessons by sitting at home. Following the guidelines by the Doctors we will be able to return our rail of life on the safe lifeline as was previously ,then only the nation or the world will be able to smile again.

Follow the closure and take all the safety measures which you can .

Reference:



Current report analysis :

Report on Graduate and Higher education under current report analysis

<https://voxeu.org/article/impact-covid-19-education>

Data of impact on World students under topic Current Report Analysis

<https://en.unesco.org/covid19/educationresponse>



Tawang, this district is situated in western most part of Arunachal Pradesh. The area of this district is approximately 2,172 sq.km, bounded by China to the north, Bhutan to the south-west. The most significant Buddhist monasteries, immense natural beauty and a relaxed peace of life which are grand mountains and lakes because of one of the very beautiful backgrounds of these cities. This attracts tourists themselves, Buddhist and Monpa culture. Tawang is unique beauty of Arunachal Pradesh and unique name of 'ta' and 'wang' - ta means horse and wang means green pastures. Tawang is also famous for 17th century Tawang Monastery, which is the second largest in Asia and most beautiful crystal clear blue water. Urgelling Gompa/monastery in Tawang has historical importance attached to it. It is the birthplace of 6th Dalai Lama Tsangyang Gyatso.

"I would have preferred butter tea, local chai this is traditional monpa tea made out of churpi (yak cheese) warms you in this chill" smiles Tenzin

Tawang snowfall during December-January expresses a natural beauty and at this time is very tough to reach. The best season to visit in Tawang is the summer season. The best months to visit are March, April, May, June, September and October. December is one of the coldest months in India and like most other hill stations. The average temperature during these months of December is around -2 degree Celsius. Tawang is a very special place for tourists. This is a witness of natural beauty and some amazing places like

TAWANG MONASTERY

Visit this place if you are interested in Buddhist culture and natural beauty. The monastery can be identified from a distance due to the unique yellow rooftop of all the buildings. This is not only India's largest monastery. It was most beautiful also. The statue of Buddha is mesmerising. This is a big campus with many different categories likeclassroom, temple, living area etc.

Sela pass: Sela pass boasts of stunning natural beauty. Sela is a high altitude mountain pass that acts as the gateway to Tawang. There is an interesting story of the name of the Sela pass. 'se' and 'la' itself translates to 'se pass', because 'la' means pass. According to legend, a brave and valiant Indian army soldier called Jaswant Singh Rawat single-handedly protected the open border against a planned Chinese invasion.

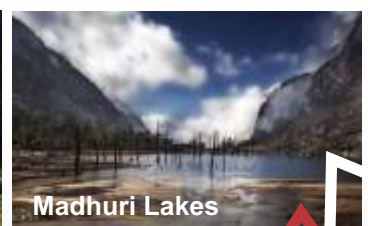


A Different TAWANG



Madhuri lakes: Madhuri lake originally known as Shonga-tser lake but the name was renamed after shooting a Bollywood movie KOYLA (song - tanhai - tanhai) starring Madhuri Dixit. This is the most popular lake in Tawang. Madhuri lakes describe only natural beauty and nothing less.

Nuranang falls: It is a large waterfall amongst the beautiful surroundings. Also known as Jung Falls or Bong Bong Falls. Nuranang Falls and Nuranang River are named after a Monpa girl named Nura, who helped the rifleman Jaswant Singh Rawat. Not only it's a spectacular attraction of Arunachal Pradesh, but also it is used to generate electricity for local use.

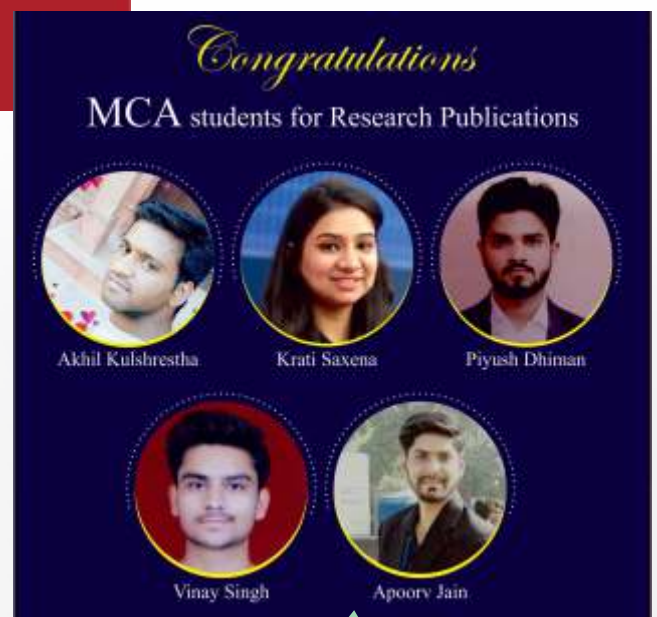


Gorichen peaks: Gorichen peak is the highest peak of Arunachal Pradesh. The peak is locally known as Sa-ngaphu, which literally means the kingdom of deities. This peak is a great trekking and mountaineering spot. Gorichen peak proves the white beauty surrounding the mountain.



Anupam Shukla
MCA (II-A)

Achievements





Alumni Section



Sonu Sharma
Sr. Digital Marketing Analyst
Vinculum Solutions
(Batch : 2009-2012)

Challenges in IT Sector

The Information Technology industry has been an eye candy of the Indian economy for long. But lately the scenario has changed, There are plenty of options to learn new and exciting skills, and also to earn high salaries. But new technologies have disrupted the industry, therefore IT professionals and management aren't always on the same page.

According to the National Association of Software and Services Companies (NASSCOM), the IT sector in India witnessing a growth of 6.1% in 2019, this was against a two-digit growth predicted by big players. Furthermore, hiring rates have decreased by around 40% in the last three years.

But why is this happening? What is dragging down the pace of growth in India's IT industry?

Skills Gap

In the era of digital transformation, the traditional business models have become outdated. Companies around the globe are embracing modern technologies like artificial intelligence (AI), cloud computing, Internet of Things (IoT), and blockchain.

However, Indian organizations are slow in adopting new technologies. Most organizations are still stuck with the traditional models, because of the lack of skilled employees, conventional infrastructure, as well as restrictive regulations.

In India, more than 400,000 students graduate every year. Yet, only 20% of them get employment. This is because the universities and colleges are focused on providing degrees rather than enhancing student skills. This has created a gap between the supply and demand.

Finding Talent

Talent is the main driver of execution and innovation. The biggest challenge that the IT companies are facing is to be able to find great talent.

The late Steve Jobs of Apple summed up talent's importance with this advice: "Go after the cream of the cream. A small team of A+ players can run circles around a giant team of B and C players."

Global Issue: Workload

Increasing workload is the main source of stress for information technology professionals, both IT professionals and decision-makers are overwhelmed with work demands.

It's sort of a chicken and egg scenario decision-makers are using increasing workloads as an excuse not to authorize training, and employees are struggling to complete assignments because they lack the proper skills.

Better manager oversight and strategy is required to address this issue. Automation may also be a solution as a means to reduce time-consuming tasks that are not high priority.

Retain Good Employees

Serial entrepreneur & business magnate Richard Branson has a very simple recipe for consistent growth and success for any company: "Clients do not come first. Employees come first. If you take care of your employees, they will take care of the clients."

In today's cut-throat world of competition, the only way to retain employees is to keep them happy and satisfied. No, money is not the only factor here, but overall employee motivation and encouragement, along with regular training, upskill and reviews from the base.

Generally software companies hire people, train them but only to witness their resignation once they are experienced enough in the job. Why??

Because, If your employees are not happy, then they will leave your company, and there is no way a great company can be built because a company becomes great only with great employees.

Now, this is a subjective matter as to how you can invest for your employees, and what strategies need to be applied to make it actually happen.

Success Story

I feel very proud to be a part of **KIET** and to be known as "**KIETIAN**". I joined KIET in 2004 for pursuing **Masters of Computer Applications**. Kiet is a place where dreams will come true. In my three years degree course, I have gained deep technical knowledge and professional attitude which as always helped me to deal with really tough situations in my professional carrier. The best part of my journey in **kiet** was the strong bond & unforgettable relationship between college faculty and students , forever **support from management** for all the **new initiatives**, which makes you perfect to survive the competition in the blooming **IT industry** .I would like to thank and convey sincere regards to all my faculty members, especially teachers for giving me such a great opportunity to learn, compete and find a successful career henceforth. I have lot of wonderful memories from **KIET** which makes me delightful always..Wishing **KIET** all the very best to continue it's good work in shaping the career goals of several aspiring students like me!



Jaideep Awasthi

Designation:- Oracle Consultant
Client:- Fidelity
Boston, USA

MCA Batch:- 2001-04

Success Story

Hola, Let's start it from where I actually started, **KIET** !! I Started my learning journey with KIET and with the **great mentors** and coaches in **KIET** in 2004 and I was launched to the market in 2007. It would be injustice to name few but those were the efforts from all my teachers including Sangeeta Mam, Prashant Sir, Arun Sir and all my friends and classmates in the college. The overall ecosystem with all, turned out to be a great **nurturing environment** for me and I learned a lot in the college, all the teachers had not just taught us in the classrooms, but they were all available for us, off classes from their staff rooms. We just used to enter in the staff rooms whenever we required any support from them. I would like to take an opportunity to thank and pass my gratitude to all my teachers from the core of my heart, and thanks **KIET** to have them all there in the college. I am on **LinkedIn** with my professional profile and would congratulate all the students to get an opportunity to get benefitted from the overall environment in **KIET** and to have a strong foundation for their upcoming careers. I am concluding it here but am still on a ride of learning!!



Sanjeev Rohila

Senior Software Engineer
F5 Networks

MCA Batch:- 2004-07

Photo Gallery



MESSANGER DOG





