



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING  
**RAJ KUMAR GOEL INSTITUTE OF TECHNOLOGY**  
5 KM STONE, DELHI MEERUT ROAD, GHAZIABAD



**BYTES**  
NOT JUST ONES  
AND ZEROS

# BYTES

**VOLUME:10 ISSUE:2**

**SEPTEMBER-OCTOBER**

**2021-2022**



## MISSION

To provide quality education in both theoretical and applied foundations of Computer Science and train students to effectively apply this education to solve real world problems.

To amplify their potential for lifelong high-quality careers and give them a competitive advantage in the challenging global work environment

## VISION

To be recognised globally for delivering high quality education in the ever changing field of Computer Science and Engineering, both of value & relevance to the communities we serve.

FOR ANY DETAILS OR QUERY CONTACT:

[Bytescse@rkgit.edu.in](mailto:Bytescse@rkgit.edu.in)

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# EMINENT PERSONALITY



**"The answers to your questions lie within-you just have to be courageous enough to do, what it takes to live your dreams"**

## Abhiraj Rajadhyaksha and Niyati Mavinkurve (Abhi and Niyu)



Abhiraj Rajadhyaksha and Niyati Mavinkurve popularly known by most people as Abhi and Niyu are well known digital content creator duo who are making waves with quality content that revolves around significant current affair

topics with the pursuit of educating the netizens. Started in 2019, this couple duo gained more than 1.8 million subscribers on YouTube with over a million views on most of their videos, as well as over 2 million followers on Instagram.

Most of the videos that they make feature both Abhi and Niyu, and are quite straightforward, peppered with numbers, data, and “research”, and are emphatic but not without some rhetoric question. Their videos mainly shed light on the pressing issues spanning over different genres like history, environment and sustainability, policy discussions, social commentary, economics, personal finance, among others and if you spend a lot of time on Instagram, you have probably stumbled upon their analysis on China's situation in post covid world, which crossed 1 crore views and have been shared by close to 30 lakh people but they

together gained popularity through their initiative #100ReasonsToLoveIndia where they spent 200 days travelling the country to highlight the 100 reasons to celebrate our glorious country. Their first video that went viral was a video urging people to look for alternatives to polluting POP and paint Ganesh idols. Since then, their well-researched videos have been shared on social media, even by celebrities.



They've used the new Instagram feature Reels and YouTube feature Shorts to talk about Incredible India in a series called ABCs of Bharat, and several Reels have got over a million views consistently. Their earlier videos on Veer Savarkar and Data Privacy also garnered 15 lakh views and close to 50 lakh views respectively. "We started our page a year back with an aim to

inspire offline action from online content. Our forte is to make impactful short format videos for millennials with an aim to promote practical patriotism and spread awareness and positivity, delving into different genres of content like history, social welfare, environmental issues, sustainable living, economy etc," Niyu says.

Abhiraj and Niyati met each other at the Narsee Monjee College of Commerce and Economics in Juhu, northwest Mumbai, in 2010.

They started dating in 2011 and wed in 2018. The couple harboured dreams of travel and storytelling for as long as they can remember but their professional careers were taking them elsewhere. Abhiraj was a commercial videographer and Niyati was a chartered accountant. It was only when they got married that the pieces began to fall in place. Niyati quit her job within six months of graduating and decided to become a freelance writer which would allow her to have the freedom to travel as much as she wished. Abhiraj decided to break away from the corporate world and wanted to start something of his own, a project where he could tell stories that he believed in. And so began their phenomenal journey of growth and sense of satisfaction to their work and life.

Abhi and Niyu have not only gained immense popularity among the netizens but are actually being recognized for the work they are doing. Recently, the influencer couple was featured on Forbes' 30 under 30, 2021, and on billboards across Mumbai as a part of Facebook's More Together campaign. In October 2020, Abhi also got an opportunity to give a speech on 'Using Social Media for Social Good' at TEDx SJEC.

Abhi and Niyu started their page to talk about positive, impactful ideas and to inspire offline action from online content. It was a way to change the way our negative influences blinds us and replace negative news with positive, action-oriented news that made some change. We really hope to see more of their videos and content that instigate their followers to do something good for the society.



# TECH BYTES

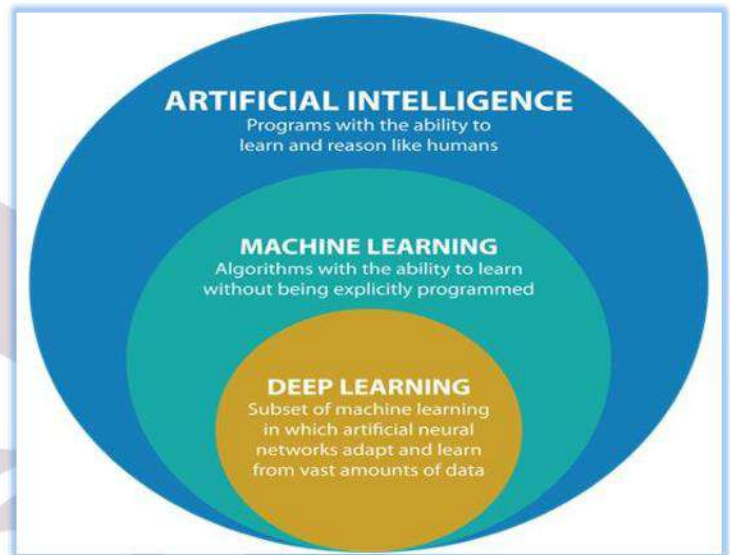


**"The best way to predict the future... is to invent it"**

## DEEP LEARNING

### What is Deep Learning?

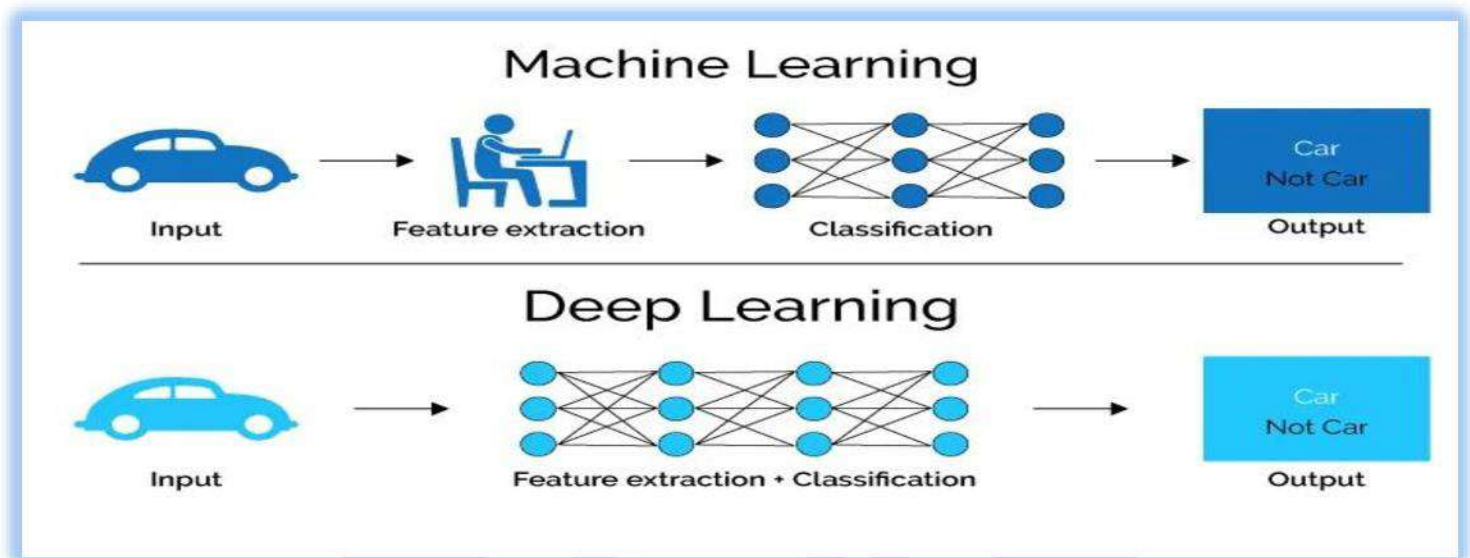
Deep Learning is a subset of Machine Learning, which on the other hand is a subset of Artificial Intelligence. Deep Learning is a type of Machine Learning, inspired by the structure of the human brain. Deep Learning algorithms attempt to draw similar conclusions as humans would by continually analysing data with a given logical structure. To achieve this, Deep Learning uses a multi-layered structure of algorithms called neural networks. Neural networks enable us to perform many tasks, such as clustering, classification or regression.



### Why Deep Learning?

The first advantage of Deep Learning over Machine Learning is feature extraction. Long before Deep Learning was used, traditional Machine Learning methods were mainly used. These algorithms are also called flat algorithms. Flat here means that these algorithms can not normally be applied directly to the raw

data (such as csv, images, text, etc.). We need a preprocessing step called Feature Extraction. Feature Extraction is usually quite complex and requires detailed knowledge of the problem domain.



## Challenges of Deep Learning:

1. Requires high-performance hardware
2. Deep Learning requires large amount of data.
3. Once trained, Deep Learning models can deliver efficient and accurate solutions, but only to one specific problem.

## Advantage of Deep Learning:

1. Feature Generation Automation
2. Works well with Unstructured Data
3. Better Self-Learning Capabilities

# TECH NEWS



**“Our Future success is directly proportional to our ability to understand, adopt and integrate new technology into our work”**

## Reliance to launch new Jio phone

Reliance in partnership with Google is going to launch the most affordable smartphone Jio phone Next. It is powered by an extremely optimized Android OS and comes with feature like smart camera, AI filters and voice assistant.



## iPhone 13 hacked in 1 second

According to IT Home, a Chinese white-hat hacker was able to remotely jailbreak an iPhone 13 pro in less than a second. He was able to gain access and even wipe away all data.



## POCO to launch M4 pro

According to 91mobiles, the handset is a rebrand of Redmi note 11 and is set to release on 9th November. The handset features 6.6-inch FHD display, MediaTek 810 chipset and has 5000mAh battery with 33w fast charging support.



## Facebook renames to Meta

Facebook changed its name to “Meta” with the goal of making a “metaverse”. Metaverse will be the next major computing platform, which aims at combining augmented, virtual and mixed reality.



## Xiaomi 12 receives BIS certification

Xiaomi 12 is rumored to debut next year. It will be one of the first phone to feature Snapdragon 898 chipset. MI 12 is expected to feature 12GB RAM and up to 512 GB storage.



The phone packs a 5000mAh battery with 120W fast charging. The phone is expected to be released in early months of 2022.

# EVENTS



**"All events are just like show that has an end.  
Nothing remains forever,except the memories,  
bitter or sweet, or both"**

## A Talk on How to write a good Research Paper?


**Raj Kumar Goel Institute of Technology**  
5th KM Stone, Delhi-Meerut Road, Ghaziabad

Department of Computer Science and Engineering

*A talk on*  
**How to write a good Research Paper ?**  
(Under the banner of CSSS)

GUEST SPEAKER

  
**Prof. Rakesh Ahuja**  
Chitkara University, Punjab

 **25 Sept' 21**  
 **10:00 am onwards**

Scan here to join the Expert talk 

Event Co-ordinator: **Mr. Gaurav Agarwal** A.P., CSE  
CSSS Co-ordinator: **Ms. Nidhi Gupta** A.P., CSE and **Ms. Rinki Tyagi** A.P., CSE

There is an exponential increase in the number of users, interested in working on the rapidly evolving technologies with expertise. This thinking also brought in unique challenges, besides aggravating the existing problems. It is felt that there is a pressing need to increase the publications of research papers by inculcating habits of “Writing and publishing quality Research”.

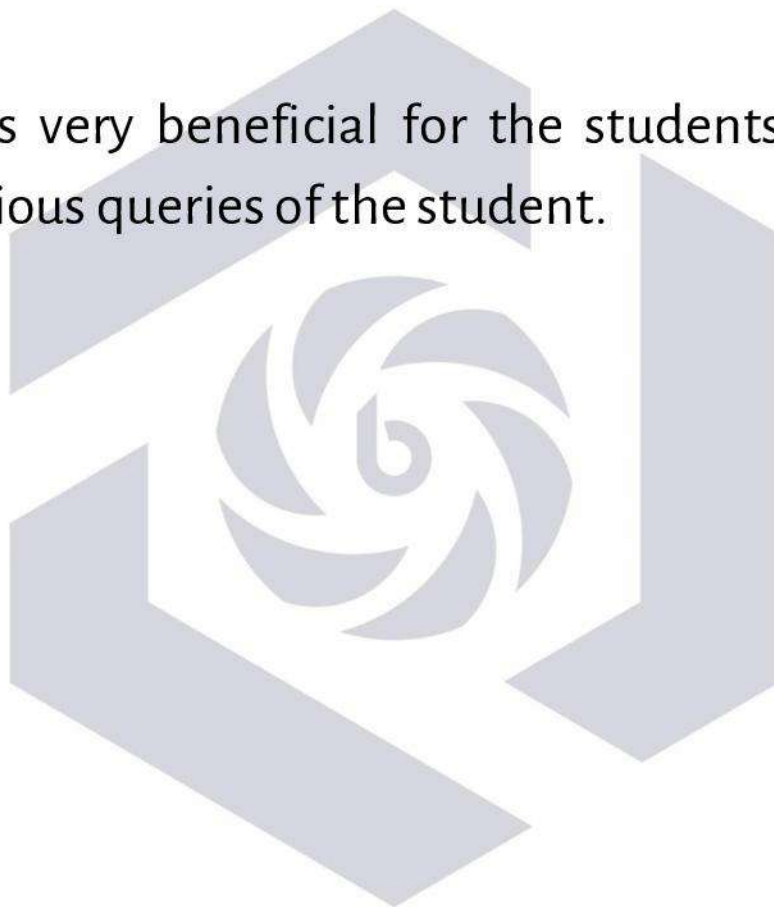
Accordingly, it was proposed to have an expert talk on 25th September, 2021 by the Department of Computer Science and Engineering, Raj Kumar Goel Institute of Technology on the topic how to write a good Research paper by Professor Rakesh Ahuja, Chitkara University, Punjab.

The event was started from 10:00 A.M. onwards in the presence of 3rd year students, this webinar was done under the banner of

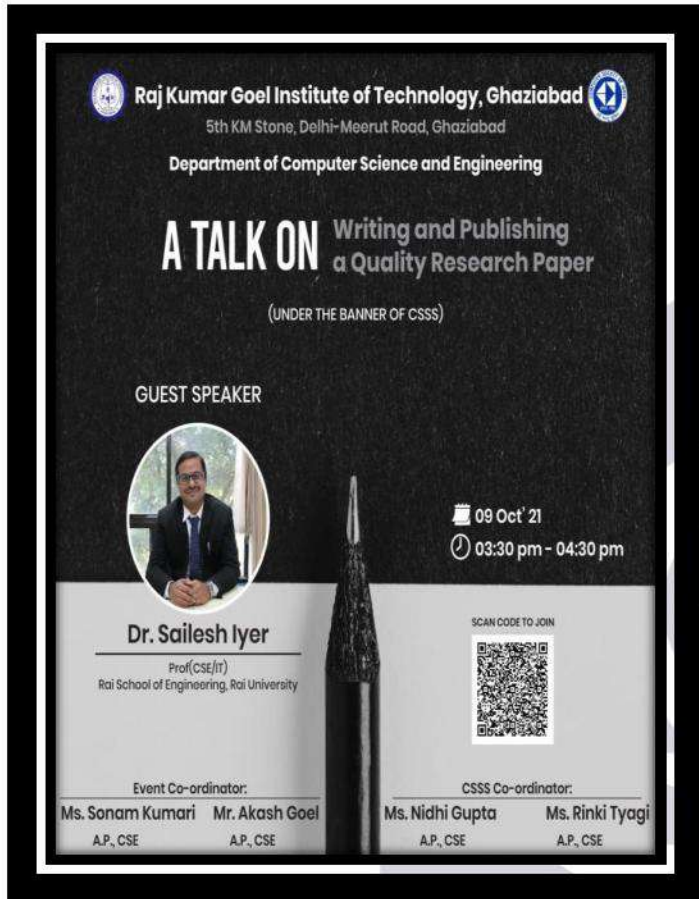


CSSS, the event coordinator of the event was Mr. Gaurav Agarwal (Assistant Professor, CSE) and the CSSS Coordinator were Ms. Nidhi Gupta (Assistant Professor, CSE) and Ms. Rinki Tyagi (Assistant Professor, CSE).

The event was very beneficial for the students and ended up answering various queries of the student.



## A Talk on Writing and Publishing a Quality Research Paper



After receiving great responses from the students on the first talk, on how to write a good research paper? Department of Computer Science and Engineering of Raj Kumar Goel Institute of Technology under the banner of CSSS organized a second talk on the topic, Writing and publishing a quality research paper on 9th October 2021 from 3:30P.M. to 4:30 P.M.

The guest speaker of the webinar was Dr. Shailesh Iyer (Professor CSE/IT) Rai School of Engineering, Rai University. The event started from 3:30 P.M. onwards with the presence of 3rd-year students, the event coordinator of this event were Ms. Sonam Kumari (Assistant Professor, CSE ), Mr. Akash Goel (Assistant Professor, CSE) and CSSS Coordinator were Ms. Nidhi Gupta (Assistant Professor, CSE ) and Ms. Rinki Tyagi (Assistant Professor, CSE)

The event ended successfully with answering students' doubts.

## Esprimo-Sentas: Character Perusal Event Cum Recruitment Drive



Birds (Brilliant Insightful Rhetor's Debonair Society), a well-known literary society of Raj Kumar Goel Institute of technology, Ghaziabad organized “Esprimo-Sentas: Character Perusal” – an online event for the 2<sup>nd</sup> year students along with the recruitment Drive

The recruitment program was organized for the students to be a part of this society, where they could get the opportunity to explore the world of literature by enhancing their oratory skills and communication skills.

The recruitment drive was held in two rounds

### 1. Round 1: Esprimo-Sentas: Character Perusal

It was done on google forms from 3<sup>rd</sup> to 6<sup>th</sup> september where students had to describe about a character and based on their

writing and literary knowledge top students were called for personal interview

### 2. Round 2: Personal Interview

It was conducted on google meet on 10<sup>th</sup> September

The recruitment drive was conducted successfully



## Brain Crackers



The Department of Computer Science and Engineering organized a virtual assessment program on Brain Crackers – an e quiz on “BRAIN COMPUTER INTERFACE”

The quiz was conducted under the guidance of Computer Science and Student Society, the event was active between 29 October from 10:00 am – 5:00 pm.

E- certificates were given to the participants and also there was no registration fees for the participants.

The organizing team included the following faculty members Ms. Geetanjali (Assistant Professor, CSE) and Ms. Shailja Varshney (Assistant Professor, CSE) as the event coordinators.

The event was held successfully

## BYTES RECRUITMENT

Raj Kumar Goel Institute of Technology  
Department of Computer Science and Engineering

**BYTES RECRUITMENT DRIVE**  
NOT JUST ONES AND ZEROS  
ONLY FOR CSE STUDENTS (BATCH 2024)  
Last Date to register: 3 Sept' 21

**JOIN OUR TEAM**

SCAN TO REGISTER

Be the part of an amazing team and stand out from the crowd!

Round 1: 4 Sept' 21 Through Google Form  
Round 2: 5 Sept' 21 Personal Interview

For further queries, Contact:  
Arushi Srivastava: 8887973175  
Teena Singh: 8755955588  
Tanya Dwivedi: 9696145589  
Nitigya Tiwari: 7651844951

**HURRY UP!**

Bytes is a technical, bi-monthly magazine published by the Department of Computer Science and Engineering of Raj Kumar Goel Institute of Technology. It is edited by a group of dedicated students who try to keep students informed about current technological breakthroughs.

The drive was conducted to assemble a group of energetic and ambitious second-year applicants who will carry

their baton forward, Bytes organized its recruitment drive on 4<sup>th</sup> and 5<sup>th</sup> September 2021 on an online platform, i.e., Google form and Google meet.

The recruitment drive was held in 2 Rounds:-

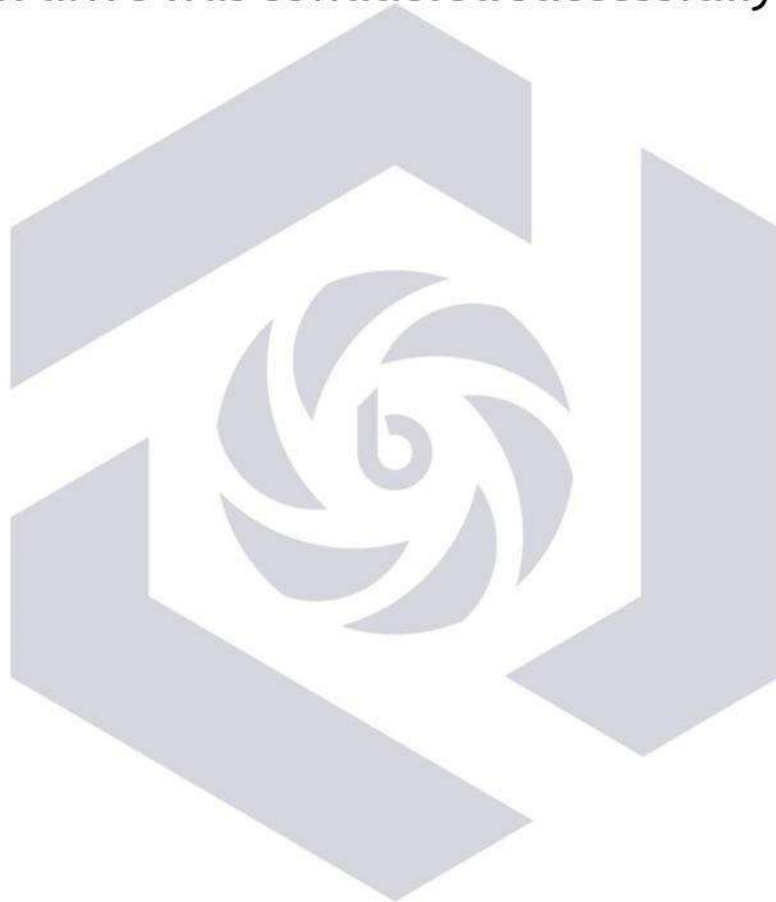
### 1. Round 1: Writing Section

It was done via Google forms on 4<sup>th</sup> September where participants had to answer 2 questions based on which their writing skills were judged and the best performers were called for personal Interview.

## 2. Round 2: Personal Interview

It was conducted on Google meet on 5<sup>th</sup> september by the existing members of the magazine.

The recruitment drive was conducted successfully.



## Taxila Recruitment Drive



TAXILA, whose motto is Learn, Change, Grow is the famous literary and oratory society of Raj Kumar Goel Institute of Technology, organized its recruitment drive for the 2<sup>nd</sup> year students in the first week of September 2021, and the last date to register for the recruitment drive was 7 September 2021.

The membership program was organized for recruiting all the passionate and enthusiastic people to be the part of the society, who wanted to overcome their fear of stages, shyness and to enhance their learning and communication skills and it aims to enhance the literary skills of students and to develop their analytical and creative thinking.

The recruitment drive was divided into two rounds respectively having two different lots for each round:



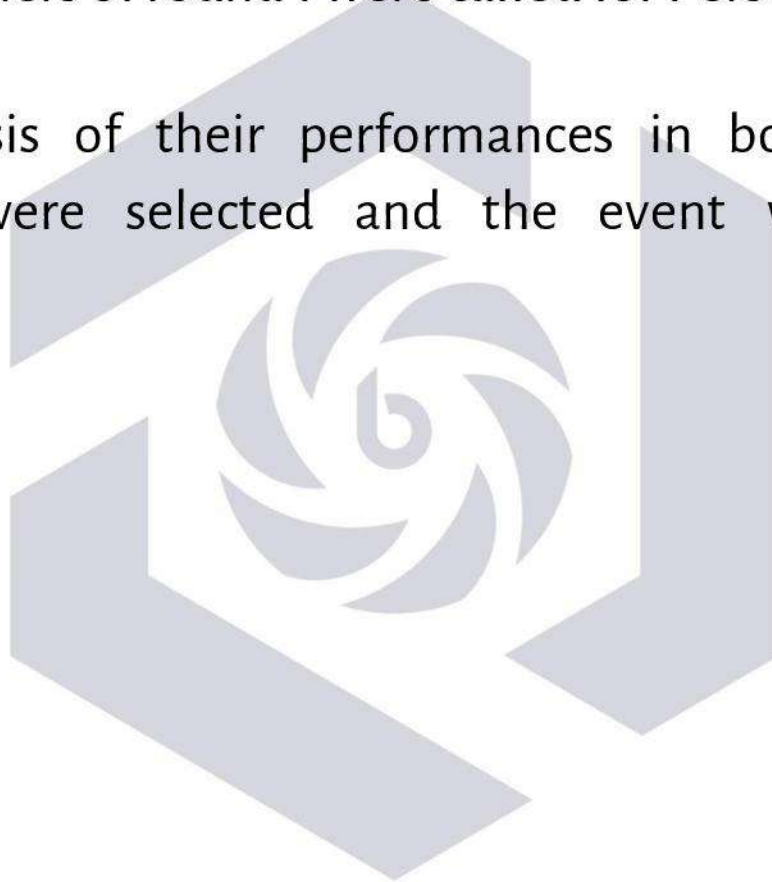
### 1. Round 1: Written-Test

There was a written test on Google forms

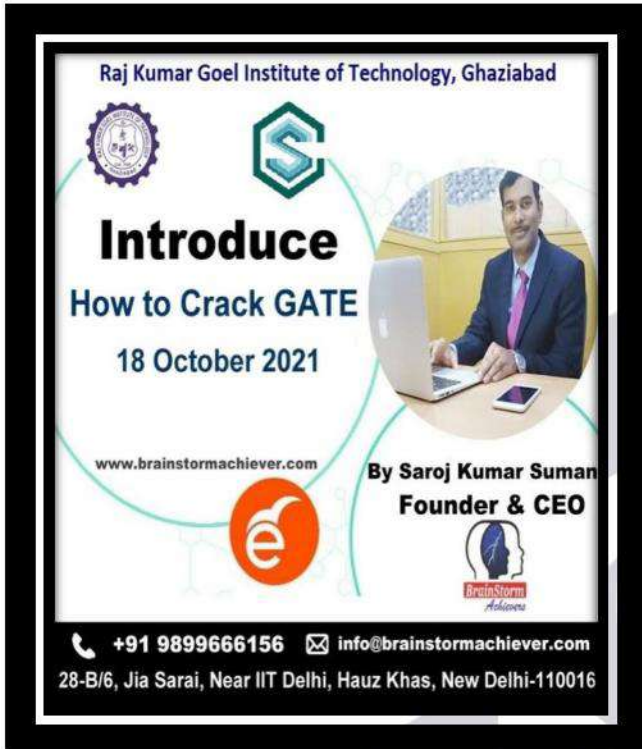
### 2. Round 2: Personal Interview

Best Performers of round 1 were called for Personal Interview

On the basis of their performances in both the rounds members were selected and the event was completed successfully



## Webinar on “How to crack GATE”



On 18<sup>th</sup> November 2021, students of 3<sup>rd</sup> year of the Computer Science and Engineering Department joined for an exclusive webinar on the topic: How to crack GATE. The event commenced with the aim to impart knowledge and guidance to the students who are aspiring to crack the Nation level Entrance Exam Gate.

GATE (Graduate Aptitude Test in Engineering) is a computer-based test conducted at the national level. Based on this, one gets admission in Post Graduate Engineering and Science Subjects. The exam is one of the most difficult examinations in our country. Just like the IIT-JEE exam. For all the students who are graduating from Engineering or Science GATE exam is very important for them. Through GATE exam students can get admissions in their dream colleges for their post-graduation

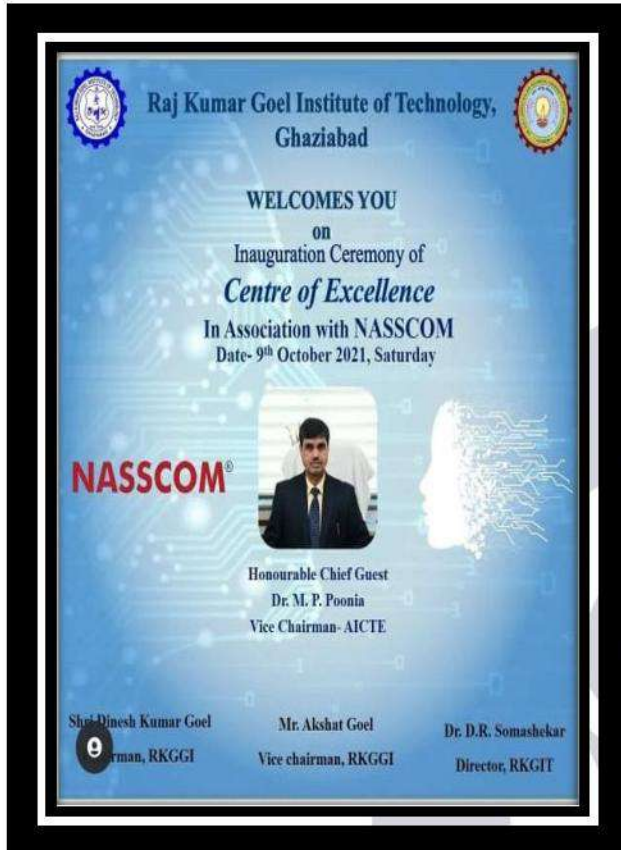
Mr. Saroj Kumar Suman, Founder & CEO of Brainstorm Achievers were the speaker of this event.

The main focus of the event was to inform the students about GATE Exam, its description that they aren't known earlier and how to do preparations, or how to manage time for it.

The Event was clearly a success. It was informative and really helpful for participants; the best part of the session was the motivation and confidence provided throughout the speech



## IOT Lab Inauguration



On 9<sup>th</sup> October 2021, Raj Kumar Goel Institute of technology inaugurated its IOT lab (Centre of excellence Lab).

This Lab is developed in the campus of RKGIT in association with NASSCOM, The National Association of software and service companies is an Indian non- governmental trade association and advocacy group focused mainly on the technology industry of India

For Inauguration of the IOT Lab Honourable Chief Guest was Dr. M.P. Poonia (Vice-Chairman AICTE), Guest of Honour were Dr. K.R. Murali Mohan (Mission Director) (NM-ICPS, DST), Dr. S.S. Singh( Joint Controller of Patents and amp, Design (Patent office, New Delhi)) and RSVP were Dr. D.K. Chauhan (Executive Director, RKG Group of Institutions), Dr. D.R. Somashekher (Director Academic, RKGIT Ghaziabad), Dr. Pawan Kumar Shukla (Convenor and his Team), NASSCOM Event.

The Event Completed successfully in the presence of all the Faculty Members of RKGIT, Ghaziabad.



## 'IQLIPSE'



Photoholics, the official filming and photography society of Raj Kumar Goel Institute of Technology, organized its orientation and first workshop 'IQLIPSE' on 2<sup>nd</sup> and 3<sup>rd</sup> October 2021.

It was a two-day program in which the existing members of Photoholics who have great experience in the field of photography, video editing and

graphic designing taught students about the basics of all three fields respectively .

The Workshop mainly included:

- Basic Photography Workshop
- Basic Video Editing Workshop
- Basic Graphic Designing Workshop

On the first day i.e. 2<sup>nd</sup> October, an orientation and basic Photography workshop was conducted, in which everything about the camera and manual mode was discussed with students.

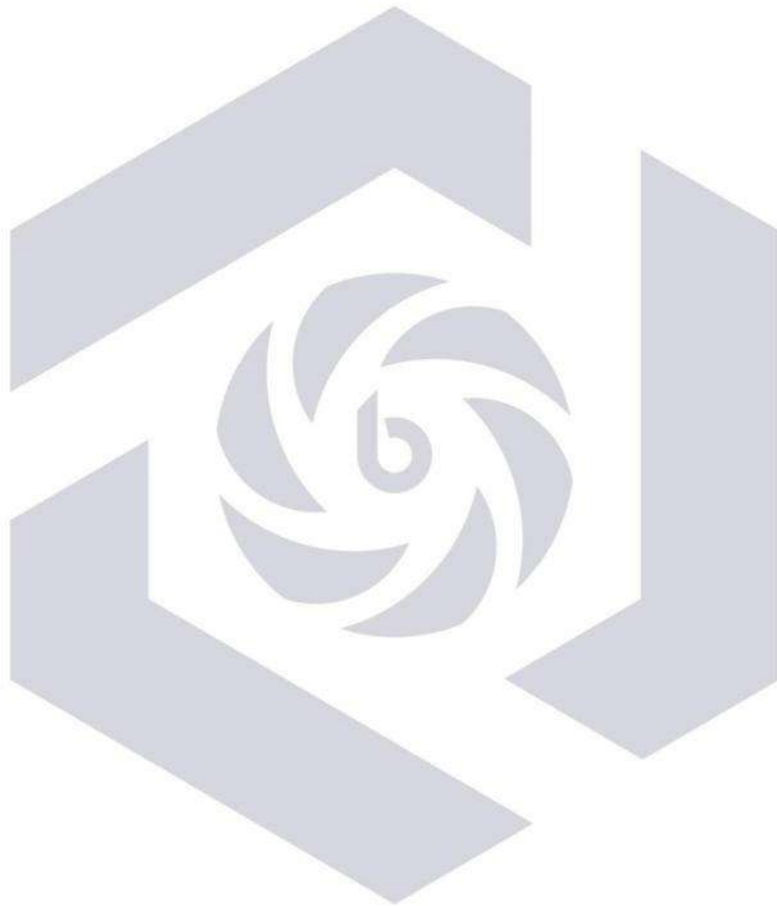


The second day was the workshop of Graphic Designing and Video Editing, in which Graphic Designing was taught on Adobe illustrator and Video Editing on Adobe Premiere Pro and Da Vinci Resolve.



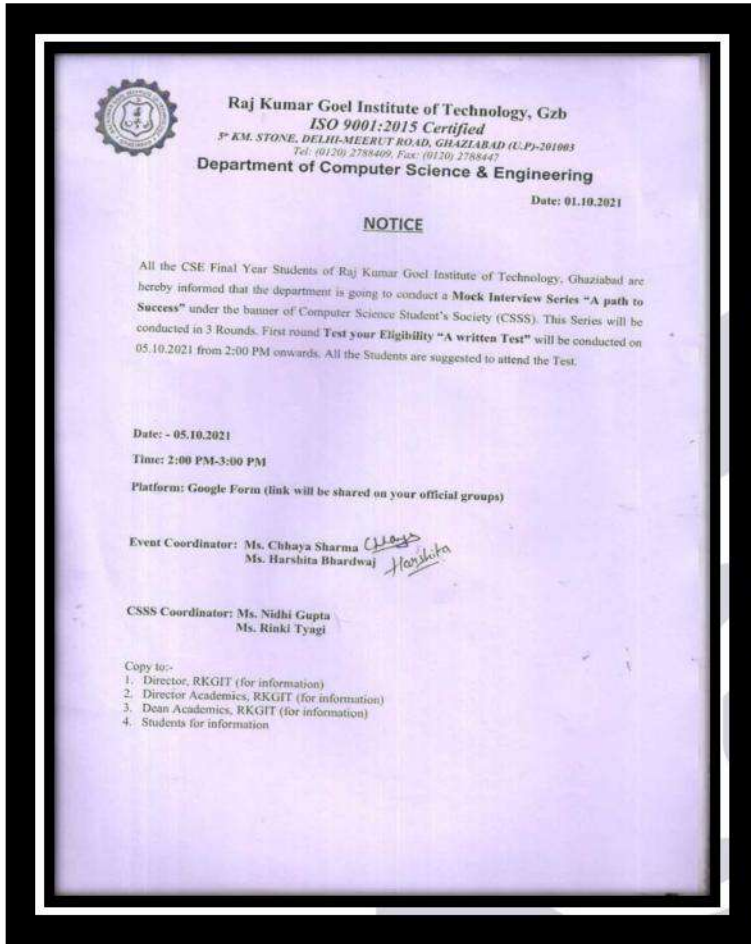
The event was completed successfully.

Students were very happy with the workshop and learned a lot and all the participants were also given the Certificates.





## Mock Interview Series “A path to success”



Under the aegis of Computer Science and Engineering Department a Mock Interview series “A Path to Success” was organized on 5 October, 2021.

The Mock Interview was conducted under the banner of Computer Science Student Society (CSSS).

The Interview was divided into 3 rounds, first round was a written test to test the eligibility of the

participants and it was conducted on Google forms. The link of the test was active from 2:00 pm to 3:00 pm.

The organizing team included the following faculty member Ms. Chhaya Sharma and Ms. Harshita Bhardwaj as the event coordinator

CSSS coordinator: Ms. Nidhi Gupta

Ms. Rinki Tyagi

Head of the department: Dr. Sachi Gupta

The event was held successfully.

# UPCOMING EVENTS



**"Participation gives you experience to upgrade your qualities, qualities makes you perfect to enhance your stardom"**

## DX Summit



Digital Transformation (DX) bridge people, process and product with technology for achieving significant competitive advantages. From past decade, Indian enterprises are turning their legacy systems to the digital concepts, however there is huge opportunity for the organizations to build global competitiveness through Digital Transformation.

The Centre is hosting the 3rd Edition of its flagship event the DX Summit & Awards 2021, scheduled in October 2021. The summit aims to highlight the best practices and deliberate upon strategies to help the Indian Industry get digitally transformed. The Summit would focus on developing an effective and integrated role for the private sector, multilateral agencies and Government for building resilience in the rapidly changing business environment.

Date: 03-06 November 2021

Venue: Hotel Suryaa, New Delhi

Link: <https://digitalterminal.in/partner-summit/index.html>

## 3RD INTERNATIONAL CONFERENCE ON ARTIFICIAL INTELLIGENCE AND SPEECH TECHNOLOGY



Delhi is organizing the 3rd version of International Conference on Artificial Intelligence and Speech Technology that will serve as a forum for discussions on the state-of-the-art Research and Development in future trends of AI and Machine Learning for Speech and Natural Language Processing. Papers are invited in the following tracks: - Track I - AI and Machine learning based tools and technology; Track II - Speech Production, Perception, Phonology and Acquisition; Track III - Spoken Language Processing; Track IV -Development of resources and Technologies for under resourced languages; Track V - NLP and Computational Linguistics.

Date:12-13 November 2021

Venue: IGDTUW, Kashmere Gate, New Delhi, 110006

Link: <https://www.igdtuw.ac.in/uploads/AIST%202021%20Brochure.pdf>

## INTERNATIONAL CONFERENCE ON CYBER LAW, CYBER CRIME AND CYBER SECURITY



The International Conference on Cyberlaw, Cybercrime & Cybersecurity aim is to examine and analyse the emerging Cyberlaw, Cybercrime and Cybersecurity trends of today's times. The International Conference will be attended by various international delegates, speakers, representatives from the national Diaspora representing the stakeholders in the digital ecosystem and alive web. These would include representatives from the Central Government & State Governments, various Ministries, Law Enforcement Agencies, Police, Business, Information Technology, Corporate Sector, Academicians, Scholars, Service Providers, International Organizations and distinguished thought leaders.

Date: 24-26 November 2021

Timing: 9:00 AM - 7:30 PM (General)

Venue: Virtual event, New Delhi

Link: <https://10times.com/international-conference-on-cyber-law-cyber-crime>

# ACHIEVEMENTS



**"The level of our achievements is limited only by our imagination and no act of kindness, however small, is ever wasted."**

## Faculty Section

**Mr. Lalit Kumar Saraswat**, CSE Department, RKGIT  
has successfully completed the course in  
**“Introduction To Industry 4.0 And Industrial Internet  
Of Things”**.



**Elite**

**NPTEL Online Certification**  
(Funded by the Ministry of HRD, Govt. of India)

This certificate is awarded to  
**LALIT KUMAR SARASWAT**  
for successfully completing the course

**Introduction to Industry 4.0 and Industrial Internet of Things**

with a consolidated score of **68** %

Online Assignments	24.16/25	Proctored Exam	44.03/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **2815**

Prof. G P Raja Sekhar  
Dean, Continuing Education  
IIT Kharagpur

Jul-Oct 2021  
(12 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur

Indian Institute of Technology Kharagpur

swayam

Roll No: NPTEL21CS66523490659

To validate and check scores: <https://nptel.ac.in/noc>

## Students Section

**Deepali Kushwaha**, 3<sup>rd</sup> year has participated and successfully completed code contest of **Code-Craze** organized by **MissionEd**.



**Deepali Kushwaha**, 3<sup>rd</sup> has successfully associated with **Prep Bytes** organisation as **Campus Business Manager**.





**Anshika Tiwari, 2<sup>nd</sup> year has successfully completed a Eight weeks online training and Programming with c and c++.**



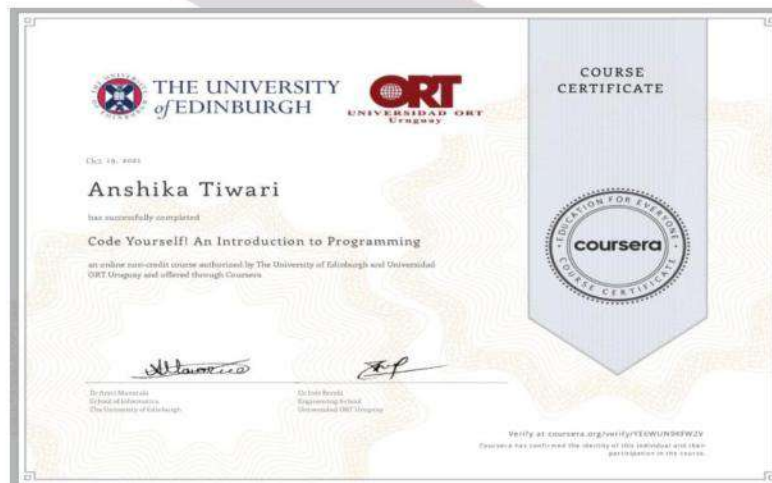
**Anshika Tiwari, 2<sup>nd</sup> year has successfully completed Goolge Cloud Training offered through Coursera.**



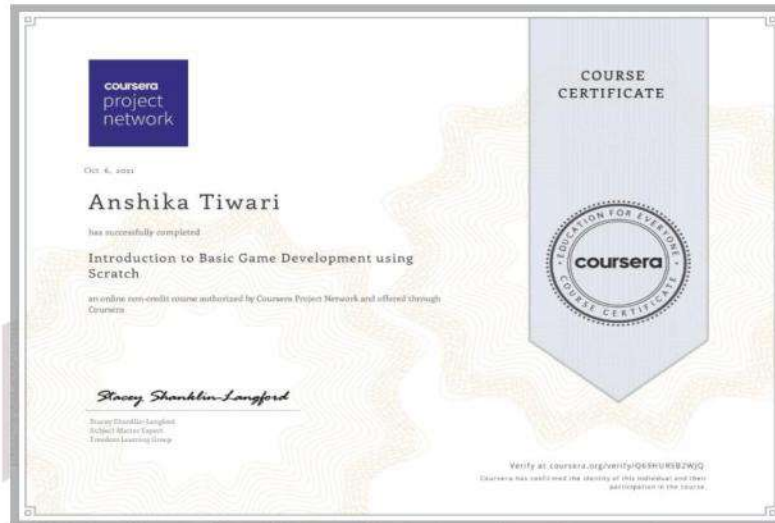
**Anshika Tiwari, 2<sup>nd</sup> year** has successfully completed **Positive Psychology** an online non-credit course offered through **Coursera**.



**Anshika Tiwari, 2<sup>nd</sup> year** has successfully completed **Code Yourself! An Introduction to Programming** offered by **Coursera**.



**Anshika Tiwari, 2<sup>nd</sup> year** has successfully completed **Introduction To Basic Game Development using Scratch** offered through **Coursera**.



# FACULTY CORNER



**“If you are planning for a year, sow rice;  
if you are planning for a decade, plant trees;  
if you are planning for a lifetime, educate people”**

***“Monuments Are The Grappling Irons That Bind One Generation To Another”***



***“Take Only Memories, Leave Only Footprints”***



***“We Seek The Fire Of The Spark That Is Already Within Us”***



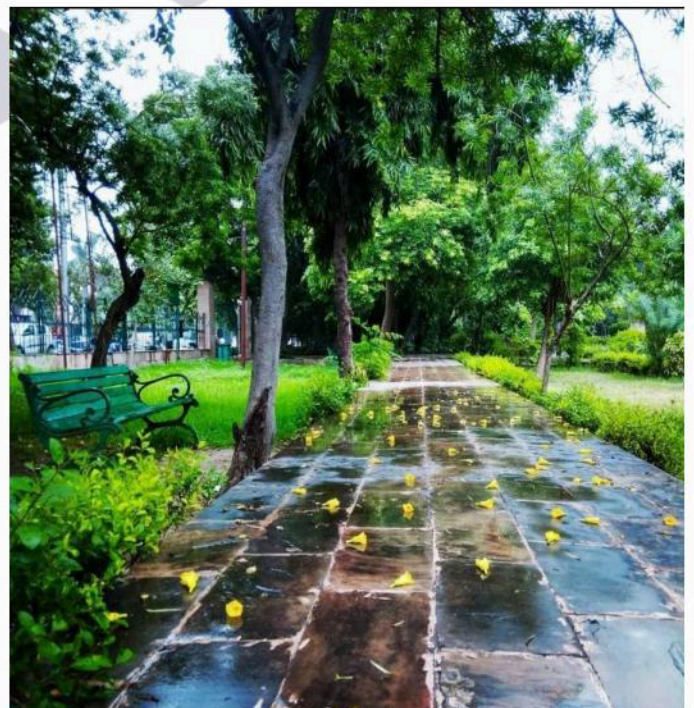
***“Nothing Can Dim The Light That Shines From Within”***



***“A Sunrise Is God's Way Of Saying, "Let's Start Again”***



***“To Walk In Nature Is To Witness A Thousand Miracles”***



**MOTHERHOOD**

Perhaps I am trapped in a web,  
web of hypocrisy,

mum;

i don't know,

sharp edge between,

believes and disbelieve,

thoughtful and being emotional,

shocked and contented.

i don't know,

how with mere conscience or rational thoughts,

severely i grown,

grown inside it.

i don't know,

how psychoanalysis make it stronger,

how heart and brain,

comes in to the existence,



**as two different elements.**

**as integrals of humanity.**

**i don't know**

**how to define soul,**

**in practical terms,**

**to survive without hurts.**

**i don't know**

**how idols and conventions,**

**overshadow the divinatory prayers.**

**how brutally all spun for a puppet.**

**but Oh motherhood!**

**i can see your eyes,**

**even when mine is close,**

**i can feel freedom and peace,**

**when i fall in your lap.**

**one day,**

**i will be disappeared,  
but your shadow will be mirrored,  
In everything,  
as most pure known fact**



**BY-**

**TARACHAND VERMA**

**ASSISTANT PROFESSOR**

# STUDENT'S CORNER



**"You can't use up creativity.  
The more you use, the more you have"**

मैं गांव बोल रहा हूं  
 पीपल की छांव में मिट्टी की खुशबू ढूंढ रहा हु  
 शहर की घुटन में अपनी पहचान खोज रहा हु  
 मैं और कोई नहीं , मैं गांव बोल रहा हु

पगडंडियों पे अब सड़क बना दी गई,  
 मुझपे शहर की एक परत चढ़ा दी गई।  
 मुझमें पड़ी कमियों का निवारण तो कर लिया  
 पर मुझमें पड़ी अच्छाइयां कहा गुमा दी गई।

गुजरे हुए कल की परछाइयां है मुझमें  
 मुझमें कुछ कुरीतियां हैं, तो मैं पूरा गलत तो नहीं  
 मुझमें हैं कमियां तो सुधारों मुझे  
 पर मुझे यूंही भूल जाना कोई हल तो नहीं

मेरा जन्म भी तुमसे हुआ, मैं आज भी तुम पर निर्भर कर रहा हूं  
 मैं तुम्हारा ही चलचित्र हूं, बस अपनी आपबीती बोल रहा हूं  
 मैं और कोई नहीं, मैं तुम्हारा गांव बोल रहा हूं

Pranjal Srivastava

3<sup>rd</sup> year, Section -D

## WHY GOD MADE FRIENDS ?

When god made friends,  
He filled them with sugar and spice  
And everything that's' nice.  
He gave them strength and caring  
So that they lend a lend a helping hand  
Or listen when you need to talk  
And always understand.  
When god made friends.  
He made someone to share secrets  
Hopes, dreams and desires,  
Who did help to pull you through  
No matter what did you do?  
When god made friends,  
He made someone faithful and forever true.

**Mayank Panwar**  
**2<sup>nd</sup> year, Section-C**



**Gavishi Raj**

**2<sup>nd</sup> year, Section-C**

आशा, निराशा से संघर्ष कर,  
जुझ कर थोड़ा प्रण कर,  
मुश्किलों को हरा कर,  
नवजीवन प्राप्त किया,  
विपदाओं को चुनौती दे कर,  
एक उद्घोष भरा,  
एक जंग लड़ी और विजयी हुआ,  
खुद को सशक्त किया,  
विश्वास भरा और उम्मीद की नीव भरी,  
सामना किया मुश्किलों से,  
कभी हारे और कभी खुद के डर को हराया,  
फिर आगे बढ़े और मजबूत होकर,  
इस अंधेरे, कठिन और विपदा के खंडहर को पार किया,  
सबको हरा कर जीत हासिल की,  
लक्ष्य को सिद्ध किया,  
श्रम किया, परिश्रम किया

उम्मीद को सहारा बना दण्डवत किया,  
आशा ,निराशा से संघर्ष किया,  
बदलाव किए, काटो को पार किया,  
खिले और मुस्कुराए अपनी कामयाबी पर,  
जो न कोई कर पाया,  
पोषित किया खुद को उम्मीदों के हथियार से,  
खुद को कष्ट दिया, दुख सहा और कमजोरी को मात दिया,  
लोगों से नहीं खुद से आगे निकलने की होड़ की,  
जिद्द की और प्रयत्न किया,  
एक आशा थी, नवजीवन की,  
मरुस्थल में मुस्कराने की, हवाओं को पैग़ाम देने की,  
बस अडिग, अटल, निरंतर, प्रण किया,  
एक लक्ष्य धरा और मार्ग चला,  
आशा, निराशा से संघर्ष कर,  
प्रण धरा, विजयी हुआ!

Pragya Singh

2<sup>nd</sup> year,Section-B



# ARE U MISSING WHAT'S NEW



**“Technology unlocks a chance to connect everything together in a new way & is dramatically transforming how we live”**

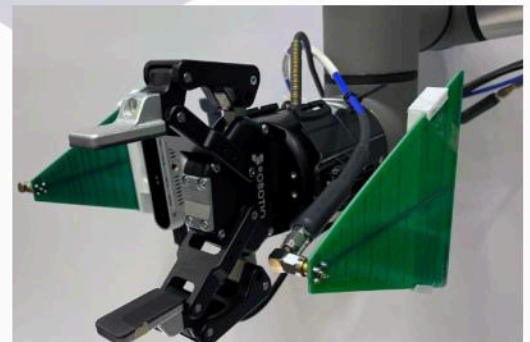
## Zero-Knowledge Proof

Zero-Knowledge Proof is an extremely secure identity verification method, unlike the current identification scheme which uses personal identification numbers (PINs) which are incredibly unsecure, which is based on the fundamental principle that information cannot travel faster than light. In this method one party (a 'prover') can demonstrate to another (the 'verifier') that they possess a certain piece of information without actually revealing that information.



## RFusion

The RFusion is a robotic arm with a camera and radio frequency (RF) antenna attached to its gripper. It fuses signals from the antenna with visual input from the camera to locate and retrieve an item, even if the item is buried under a pile and completely out of view. The RFusion prototype the researchers developed relies on RFID tags, which are cheap, battery-less tags that can be stuck to an item and reflect signals sent by an antenna and is able to locate a tagged item within a pile.



# INTERNSHIPS



**"Study what you love and intern in what you want to do"**

## Web Development

CADRA

**Work From Home**

### START DATE

Immediately

### DURATION

2 Months

### STIPEND

1000/Month

### APPLY BY

20 Dec' 21

### SKILLS REQUIRED

- HTML
- CSS
- JavaScript
- Node.js
- React.js

### Who can apply?

Only those candidates can apply who:

- Are available for the work from home job/internship
- Can start the work from home job/internship between 3rd Nov' 21 and 8th Dec' 21
- Are available for duration of 2 months
- Have relevant skills and interests

\*Woman wanting to start/restart their career and also apply.

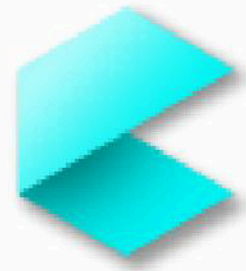
### PERKS

- Certificate
- Flexible Work hours

### NUMBER OF OPENINGS

2

**LINK:** <https://internshala.com/internship/detail/web-development-work-from-home-job-internship--home-job-at-cadra1633709960>



## Mobile App Development

Strongarm Solutions

Work From Home

### START DATE

Immediately

### DURATION

2 Months

### STIPEND

15000/month + incentives

### APPLY BY

20 Dec' 21

### SKILL(S) REQUIRED

- Windows Mobile Application Development
- React Native

### Who can apply?

Only those candidates can apply who:

- Are available for the work from home job/internship
- Can start the work from home job/internship between 3<sup>rd</sup> Nov' 21 and 8<sup>th</sup> Dec' 21
- Are available for duration of 2 months
- Have relevant skills and interests

\*Woman wanting to start/restart their career can also apply.

### PERKS

- Certificate
- Letter of recommendation
- Flexible work hours
- 5 days a week

### NUMBER OF OPENINGS

4

**LINK:** <https://internshala.com/internship/detail/mobile-app-development-work-from-home-job-internship-at-strongarm-solutions1635899023>

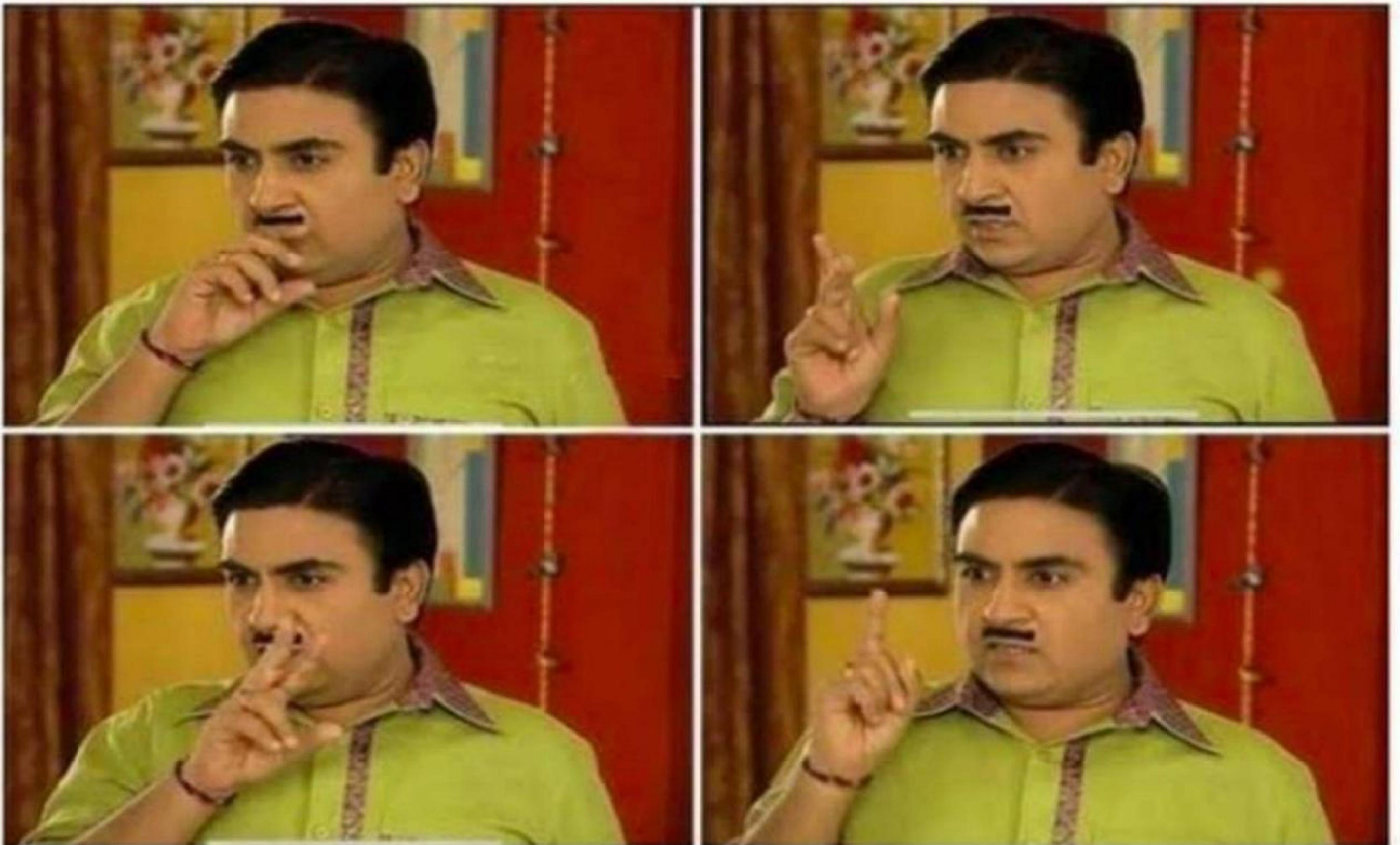


# FUN SECTION



**"PLAY is our brain's favourite way of learning."**

\*me trying to explain the  
logic behind the code I copied  
from Internet



# Computer Engineers



What my friends think I do



What my mother thinks I do



What society thinks I do



What girls think I do



What I think I do



What I really do

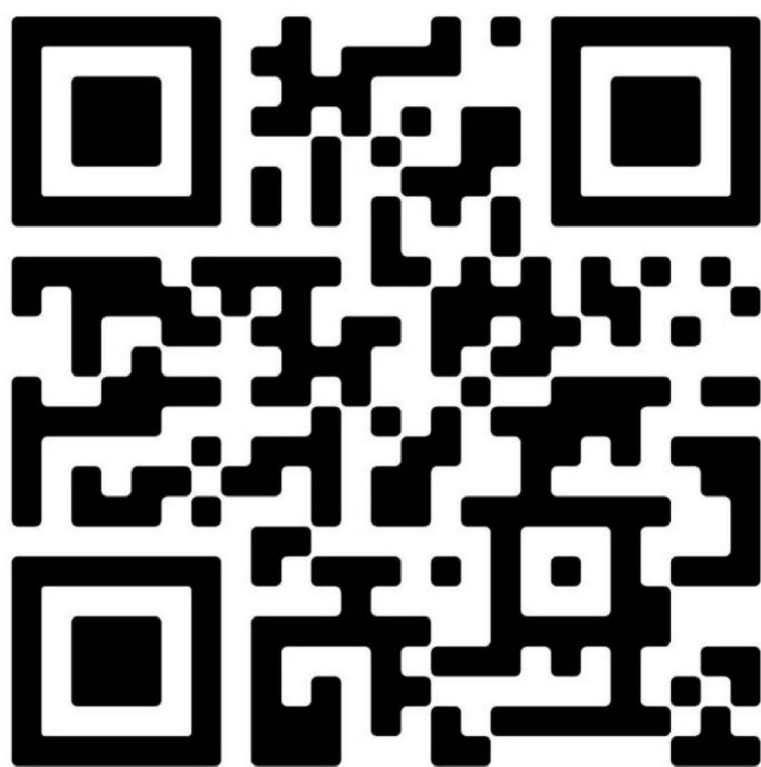
(c) allferez

**ENGINEERING FACT**

**'NIGHTS' ARE MORE PRODUCTIVE THAN 'DAYS'**

VIA FUNNYPICTURE.COM





SCAN ME