

तमसो मा ज्योतिर्गमय



Darkness to Light

**GEETANJALI**  
INSTITUTE OF TECHNICAL STUDIES

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PROBLEM  
SOLVING

# **BITS & BYTES**

**VOLUME 5 ISSUE I**  
**January - June 2021**

**Computer Science Department**

**E-Newsletter**

ALGORITHM



# **VISION OF COMPUTER SCIENCE & ENGINEERING DEPARTMENT**

To nurture the students to become employable graduates who can provide solutions to the societal issues through ICT

## **MISSION OF COMPUTER SCIENCE & ENGINEERING DEPARTMENT**

- To focus on practical approach towards learning and exposing the students on the latest ICT technologies.
- To foster logical thinking among the students to solve real time problems using innovative approaches.
- To provide state-of-the-art resources that contributes to inculcate ethical and life-long learning environment.



# ABOUT DEPARTMENT



Computer Science and Department is one of the most popular branches of engineering which involves researching, designing, developing, testing and maintaining a software product. Computer Science and Engineering is mainly focused on building a strong foundation in mathematical and algorithmic concepts. They're involved in the design of computer architecture and function across roles as software and hardware engines.

The Department of Computer Science and Engineering conducts research covering wide areas of information science, from fundamental technologies such as software design, object oriented programming, computer architecture, database system, discrete mathematics, and Internet technologies, which support infrastructures of the advanced information-oriented society.



# DIRECTOR'S DESK



**Dr. Vikas Misra**

**Director, Geetanjali Institute of Technical  
Studies, Udaipur**

Geetanjali Institute of Technical Studies, Udaipur has taken up the commitment for the development of the skilled human resource in an era of rapid economic and technological development by imparting the intensive theoretical and practical training in various Trades of technical courses. We are providing all kind of job oriented courses with excellent practical training and theoretical knowledge through our experienced faculty.

I am very happy that the Computer Science and Engineering Department is releasing the 5th edition of 'Bits & Bytes' as a forerunner of department activities.



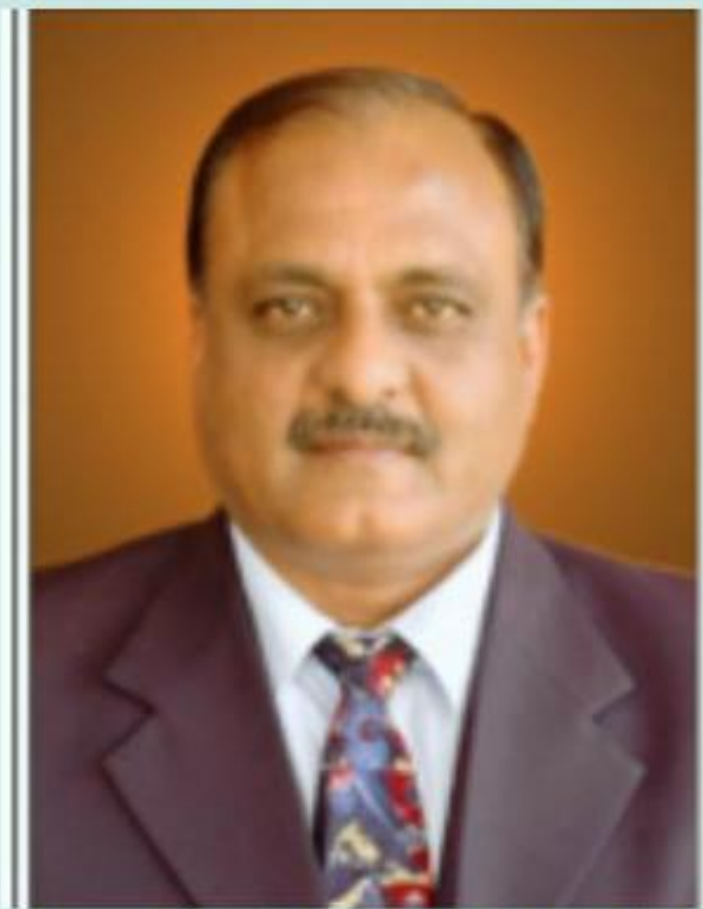
At our institute, we make a future where education and knowledge are the key factors in our nation's progress in order to remove the word unemployment. Hence, we try our best to inculcate qualities like perseverance and determination in our students, and train them to be well-qualified professionals.

Originality and a feeling of one's own dignity are achieved only through hardwork. Hardwork has no substitute. Only those who work hard, succeed. A student can never come out with flying colours unless he or she has really worked hard throughout the year. Burning midnight-oil paves the path of success. It never passes into nothingness.

***"If a person loves what he is doing, he will be successful."***



# DIRECTOR(IQAC) DESK



**Dr. Sudhakar Jindal**

**Director(IQAC), Geetanjali Institute of Technical Studies,  
Udaipur**

As a director, I am elated that the Computer Science and Engineering Department of Geetanjali Institute Of Technical Studies is releasing the 5th edition of 'Bits & Bytes' as a forerunner of department activities.

In the age of globalization, to build a truly different institution of engineering and technology in Udaipur, an institution with a marked difference in quality to serve the local people in global arena. Our aim is to build an effervescent community of engineers, where faculty and students are cronies in a mutually inspirational education process, engrossed in learning.



The career prospects of the engineers and technologists are wide-ranging and fulfilling. A well-trained engineering graduate will be equally competent in research and professional positions, drawing upon his analytical, practical and problem-solving skills. But we aren't just about the technology. We look for, and develop creative problem solving strengths in our students; at the same time, we encourage students to grow as effective team players, with a strong set of ethics, communications skills and zeal to outshine.

***"Be a person not a machine. Don't accumulate degrees rather inculcate ethics and values."***



# HOD'S DESK



**Dr. Mayank Patel**

**HOD, Department of Computer Science and Engineering**

It is a great honor for me to introduce our Department of Computer Science and Engineering to you all. Leading the Department of Computer Science and Engineering in GITS, which is one of the best an institution in the region due to our focused approach towards holistic growth of every student, gives me enormous pleasure. We are committed to providing not only the technical education to our students but also the leadership qualities through which they can create employment to others.

I am happy to note that various initiatives are taken by the faculty to disseminate knowledge by organizing conferences, training programs and workshops.. Expert lectures are also organized by the department time to time to keep abreast with the latest developments in the field of science and technology. I subscribe to the belief that “one must find meaning in one’s daily work”.



The best work happens when you know that it is not just a work, but something that will improve other people's lives. This is a guiding principle that catalyzes and drives each one of us at the IT department.

The Department of CSE is striving hard towards the goal of providing innovative and quality education with high standard to achieve academic excellence and provides platform for the students to achieve their career goals. Department has a team of highly experienced and motivated faculty members who are in the process of tuning the young minds to make them globally competitive. Innovative methods of teaching and learning process are adopted to achieve learning abilities through practice, exposure and motivation.. Above all, the entire teaching fraternity of the Department of Computer Science and Engineering look forward to the holistic growth of the department and they aim at doing something extraordinarily remarkable in the academic arena of Computer Science and Engineering.

I congratulate to the team of faculty members and the students for their brilliant and original efforts. I wish all the Students and Faculty a great academic career.



# **EDITORIAL BOARD**

## ***FACULTY EDITOR:***

**Ms. CHARU KAVADIA**

**(Assistant Professor, Department Of CSE)**

## ***STUDENT EDITORS:***

**VIPLOV JIWNANI (III Year, CSE)**

**PURVI AGRAWAL (III Year, CSE)**

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# webinar



# Webinar on "Carving a Future Aspect with Data Analytics(IOA-UK)"

(07 th January, 2021 , 1:00 P.M)

This webinar was organised to make the students aware about the application of Data Analytics

## Inaugural Session:

In inaugural session following were present:

1. Dr. Vikas Misra, Director, GITS
2. Dr. S. Jindal, Director-IQAC
3. Dr. Mayank Patel, HoD CSE, GITS
4. Ms. Shipra Sharma, Faculty Co-ordinator
5. Prof. Sachin Tripathi, Guest
6. Mr. Vikas Khosla, Guest
7. Mr. Abhishek Goyal, ISDC



*Poster of the webinar*



The programme was inaugurated by Ms. Shipra Sharma, Asst. Professor by welcoming all the cherished dignitaries and participants. In welcome speech Prof.(Dr.) Vikas Misra, Director (GITS) shared his views with the participants that if they wants to develop themselves, then attending such seminars would enhance their technical skills. Sir also welcomes the eminent speakers and brief about the importance of data analysis and role of data science engineer in today current scenario. Dr. S. Jindal, Director-IQAC, GITS welcomes all and brief the importance of data analysis and its application in industries and the career opportunities in it.





Prof.. Sachin Tripathi, takes the first session in which he brief explain, what is data analyst, and what are the major components in it. Sir says that analytics tools can either qualitative such as quality of life surveys in the medical field or quantitative such as statistical tools or software. They extract, and bifurcate useful data from unnecessary information and analyse them to come up with patterns and numerical data that can help in making a profitable change. Data analytics is an integral component of making strategies in all major organisations as it helps them predict customer trends and behaviours, increase business productivity, and make evidence-backed decisions. Sir briefly elaborate about different components of data analysis such as Data mining, Text analytics, Data visualisation and Business intelligence.





Mr. Vikas Khosla focuses on the career opportunities available in data science. He briefly elaborates how to get masters in data analysis and how students can apply for job in India or in UK. Sir also shows some live working of the projects developed by them.



Data Analytics Program is endorsed by the Institute Of Analytics (IOA), UK and is open to all the students belonging from B.Tech (CSE) with Data Analytics. The Graduates can apply for IOA Affiliate Membership after the Successful completion. The Institute of Analytics (IOA) is the Professional Body for Analytics and Data Science professionals in UK and International. IOA is a not-for-profit organization that exists to promote greater awareness, understanding and innovation in Analytics. IOA is fully supported in its mission by leading organizations in the sector.



## B.Tech (CSE) with Data Analytics

The Institute of Analytics provides members with the opportunity to network with other professionals in the industry, to learn about career development opportunities, to share knowledge and expertise, to access Continuous Professional Development programs and to carry the official designation of membership.

1. Analytics is the new buzzword for any business. The world is overflowing with data and anyone who can harness this data to benefit enterprises is highly sought after.
2. There is a huge shortfall of trained analytics professionals in India and abroad
3. Demand for analytics is at an all-time-high. An estimated 2.7 million job-postings for Data Analytics and Science are projected in the United States by 2020.
4. Multi Industry/domain opportunities give a chance to select from a variety of industries that match students' interests.
5. Competitive average salary, higher than that of any other IT domain.



## Why IoA?

Here are just some of the reasons why you should choose IoA as your path to becoming a qualified analyst.

1. Use of official designation of the institute .
2. Global Recognition .
- 3 .Invitations to all our networking events .
- 4.Access to Continuous Professional Development programmes and online portal .
- 5.Invitations to regular Industry briefings where industry experts share their insights, knowledge and experience .
- 6.Access to job opportunities page .
- 7.Invitations to Annual & Regional Conferences .

## Program Highlights

- 1.Hands on training on Analytics modules from IoA (Institute of Analytics)
2. Provides Dual Qualification : Students who enroll for this course get a Degree from the University plus Affiliate Membership from IoA (Institute of Analytics), UK
3. Provides blended learning from Industry and Professional Trainers from ISDC & IoA
- 4.Students get a Affiliate Membership from IOA, UK and a Skill Certificate from ISDC on Completion of 3 years of graduation



5. Course includes Seminars, Power Packed Workshops, Corporate Engagements.
6. Enhanced career opportunities in India and abroad
7. The qualification is recognised globally.



## Valedictory Session:

Ms. Shipra Sharma Event coordinator summarized the outcomes of the seminar. All participants appreciated the department for organizing such type of seminars. The program was ended with vote of thanks by Dr. Mayank Patel.

## Outcome:

After this lecture, audience will be able to know about data Analytics and what are the future aspects of it.

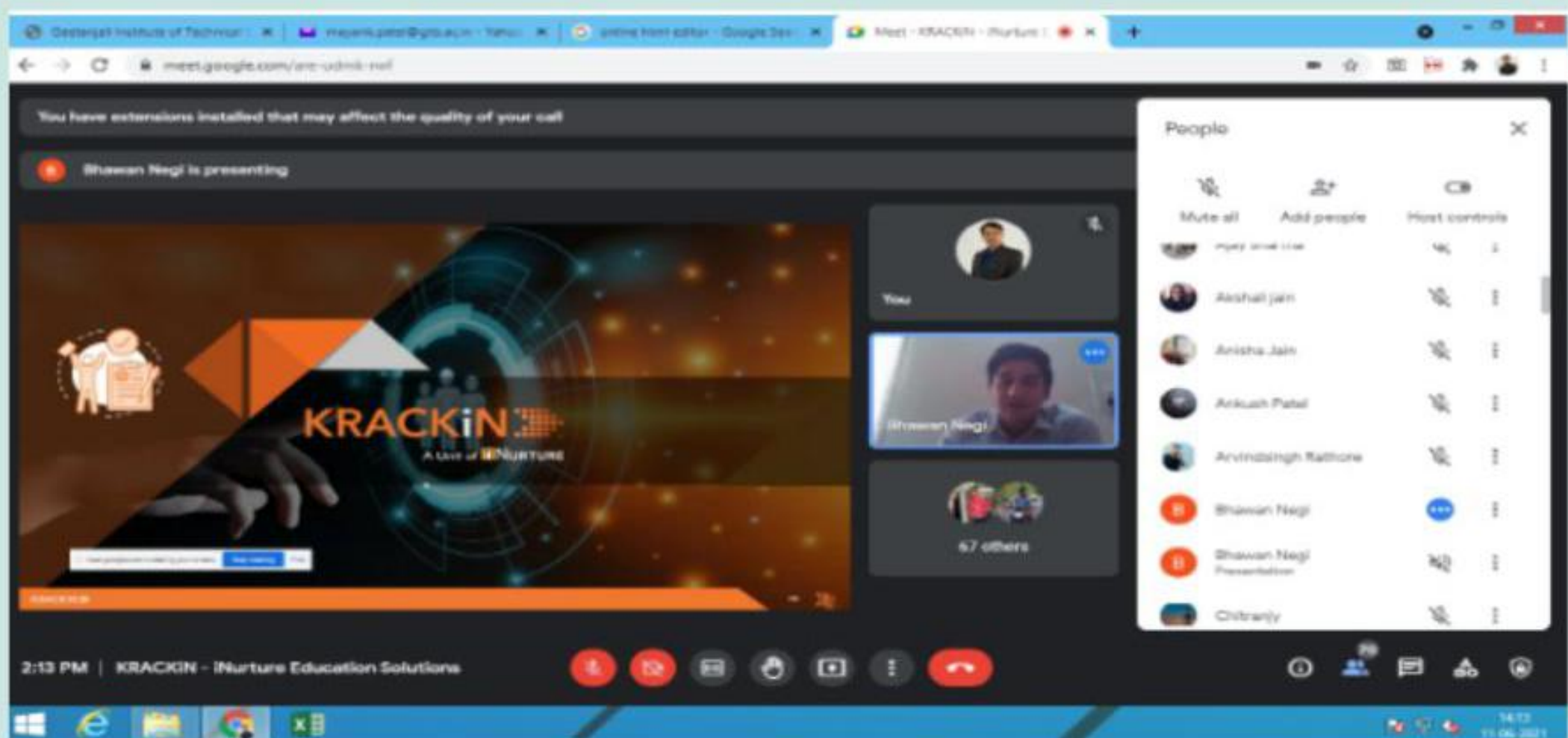


# Webinar on "Dream Job preparedness and upskilling using Krackin."

(06 th June, 2021 , 2:00 P.M)

This webinar was organised to make the students aware about the on-campus career development programs and placement cells, strengthening the 'employability quotient' across the entire spectrum of adult learning – from college to corporate.

It was organized by CSE student club and the Department of Computer Science. A total of 100 participants were present during the Webinar. Resource person for the event was Mr. Bhawan Negi, Krack in-INurture Solutions.



*Poster of the webinar*



## Inaugural Session:

In inaugural session following were present:

1. Dr. Mayank Patel, HoD CSE, GITS
2. Ms Ruchi Vyas, Faculty Co-ordinator, CSE Student Club
3. Mr. Bhawan Negi, Guest

The programme was inaugurated by Ms. Ruchi Vyas, Asst. Professor by welcoming all the cherished dignitaries and participants. In welcome speech Prof. (Dr.) Mayank Patel, HoD CSE, (GITS) welcome our eminent speaker Mr. Bhawan Negi and also shared his views with the participants that if they want to develop themselves, then attending such webinars would enhance their technical skills and even their interpersonal skills.



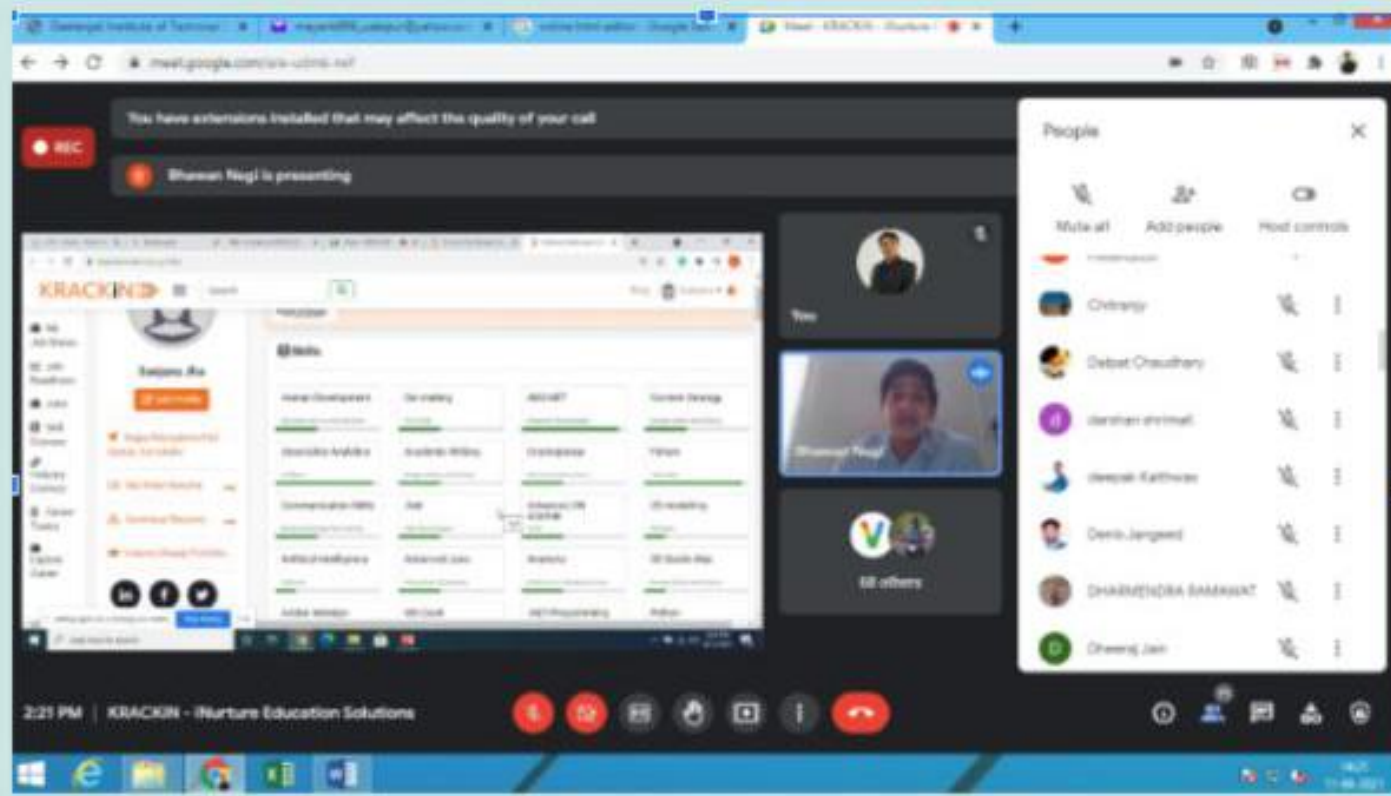
*A glimpse of the webinar*



Mr.Negi defined about their perspective towards the scenrio A pioneering edtech solution provider, iNurture revolves around a university-industry partnership. It collaborates with premium Indian and global universities to power new-age undergraduate and postgraduate programs through industry-aligned curricula and advanced technology enablement. iNurture implements a holistic knowledge-imparting model to prepare students for new-collar jobs in emerging industries.

He also told students about how iNurture leverages its strong industrial associations to facilitate guest lectures, internships, industrial visits, live projects and placement assistance. Its artificial intelligence-based platform assesses the employability of a student and provides necessary interventions through on-campus career development programs and placement cells, strengthening the 'employability quotient' across the entire spectrum of adult learning – from college to corporate.





## Valedictory Session:

Receiving an overwhelming response with participants, webinar came to an end with valedictory session, graced by Dr. Mayank Patel, GITS. Ms. Ruchi Vyas Event coordinator summarized the outcomes of the webinar. All participants appreciated the department for organizing such type of webinars. The program was ended with vote of thanks by Dr. Mayank Patel



**Outcome:** After this lecture, students will be able to manage how to move on with the latest technological scenario and also they will be capable of choosing right global solution being provided by the iNurture scenario.



# CONFERENCE





# **International Conference on "Data Driven Computing and IOT"**

**(20th-21st March, 2021)**

A 2-day International Conference on Data driven Computing and IOT was organised by Rajasthan Technical University, Kota which was sponsored by TEQIP-III RTU .

The faculties of Computer Science and Engineering Department, Geetanjali Institute Of Technical Studies attended the conference to hone their technical skills and make the most out of their time.

## **Innaugural Function:**

The director of Geetanjali Institute Of Technical Studies, Udaipur Mr Vikas Misra welcomed the participants on 20th March 2021 and the anchor was Ms Deepika Sahu. Followed by which other dignitaries also addressed the participants.





The conference began at about 11.30 AM on 20th March 2021 and it was innaugurated by Ms Deepika Sahu and it was followed by Ms Ruchi Vyas who announced the names of speakers to presented their papers.

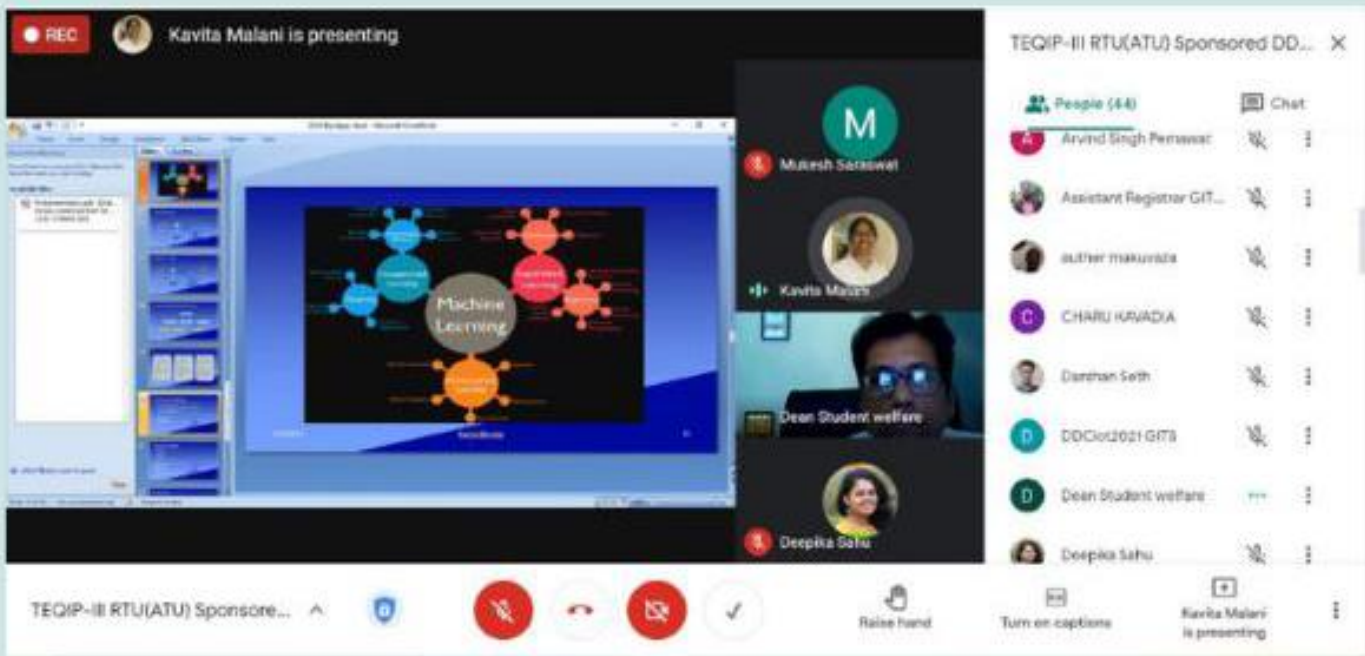
On the first day, 5 papers were presented pre lunch and 7 post lunch.

On the second day, 7 papers were presented before brunch, and 8 after brunch.





Let us take a glimpse on some snapshots from between the conference:






# News Coverage:

## गिट्स में अंतर्राष्ट्रीय कान्फ्रेंस का समापन


उदयपुर (वि)। गीतांजलि इंस्टीट्यूट आफ टेक्निकल स्टडीज डबोक उदयपुर में राजस्थान तकनीकी विश्वविद्यालय कोटा एवं टेक्निप द्वारा प्रायोजित दो दिवसीय अंतर्राष्ट्रीय कान्फ्रेंस 'डाटा ड्रिवन कंप्यूटिंग एंड आइ ओ टी -2021' का समापन हो गया। कान्फ्रेंस में राजस्थान तकनीकी विश्वविद्यालय कोटा के वाइस चांसलर प्रो. आर ए गुप्ता की भूमिका महत्वपूर्ण रही। संस्थान के निदेशक डॉ विकास मिश्र के अनुसार इस अंतर्राष्ट्रीय कान्फ्रेंस में इलेक्ट्रॉनिक्स और कंप्यूटर इंजीनियरिंग से सम्बंधित देश-विदेश के शोधकर्ता, फैकल्टी मेंबर्स तथा वैज्ञानिकों ने इनोवेशन एवं शोध के साथ गिट्स के प्लेटफॉर्म पर संयुक्त रूप से सामिल होकर अपने अपने ज्ञान को साझा किया। संस्थान के आइक्यूएसी निदेशक डॉ सुधाकर जिंदल ने कहा कि प्रतिदिन इंटरनेट के यूजर्स बढ़ते जा रहे हैं ऐसे में यदि बिग डाटा और आई ओ टी का प्रयोग संयुक्त रूप से एग्रीकल्चर, इंपोर्ट एक्सपोर्ट, एमैनुफैक्चरिंग, शिक्षा, स्वास्थ्य आदि समस्त आदि क्षेत्रों होता है तो नेशन बिल्डिंग में सहायता मिलेगी।

कान्फ्रेंस के जनरल चेयर डॉ राजीव माथुर के अनुसार इस कान्फ्रेंस के लिए देश विदेश कुल 155 शोध पत्र प्राप्त हुए थे। संचालन डॉ दीपिका साहू एवं असिस्टेंट प्रोफेसर रुचि व्यास द्वारा किया गया। संस्थान के वित्त नियंत्रक बी एल जांगिड़ ने कहा कि गिट्स इस प्रकार के काम को बढ़ावा देने एवं सुविधा प्रदान करने के लिए प्रतिबद्ध है।

**प्रातःकाल** Mon, 22 March 2021  
epaper.pratahkal.com/c/ 

## अंतर्राष्ट्रीय कान्फ्रेंस में जुटे देश-विदेश के तकनीकी विशेषज्ञ

उदयपुर (वि)। गीतांजलि इंस्टीट्यूट आफ टेक्निकल स्टडीज डबोक उदयपुर में राजस्थान तकनीकी विश्वविद्यालय कोटा एवं टेक्निप द्वारा प्रायोजित दो दिवसीय अंतर्राष्ट्रीय कान्फ्रेंस 'डाटा ड्रिवन कंप्यूटिंग एंड आइ ओ टी -2021' का शुभारंभ हुआ। कान्फ्रेंस के चीफ पैटर्न आरटीयू के वाइस चांसलर प्रो. आर ए गुप्ता है। संस्थान के निदेशक डॉ विकास मिश्र के अनुसार कान्फ्रेंस का मुख्य उद्देश्य बिग डाटा कंप्यूटर ड्रिवन एंड आइ ओ टी के क्षेत्र में हो रहे विभिन्न समाजोपयोगी आविष्कारों तथा तकनीकों से संबंधित अकेडेमिसियन, रिसर्चर तथा इंडस्ट्रियलिस्ट को एक प्लेटफॉर्म मुहैया कराना है। संस्थान के आइक्यूएसी निदेशक डॉ सुधाकर जिंदल ने कहा कि समाज के विकास में इंजीनियरिंग का योगदान बहुत बड़ा है। कान्फ्रेंस के जनरल चेयर डॉ राजीव माथुर ने बताया कि बताया कि इस कान्फ्रेंस के लिए देश विदेश कुल 155 शोध पत्र प्राप्त हुए थे। शोध पत्रों की गुणवत्ता को ध्यान में रखते हुए सिर्फ 34 शोध पत्रों को स्वीकार किया गया। स्वीकृत शोधपत्र विश्व की प्रसिद्ध रिसर्च बुक स्पिंगर नेचर में प्रकाशित किए जाएंगे। 2 दिन तक चलने वाले इस कान्फ्रेंस में पहले दिन नामीबिया विश्वविद्यालय, नामीबिया के साइंस एंड टेक्नोलॉजी डिपार्टमेंट के कीनोट स्पीकर प्रोफेसर डॉ धर्म सिंह ने इंडस्ट्री 4.0 के आर्टिफिशियल इंटेलिजेंस के उपयोग के बारे में प्रकाश डाला। नेशनल यूनिवर्सिटी, सिंगापुर के प्रो डॉ बिप्लव सिकदार ने आई ओ टी में फिसिकल सिम्योरिटी चैलेंज एंड सोलुशन के बारे में बताया। आई आई टी पटना के प्रो राजीव मिश्रा ने बिग डाटा एंड ग्राफ़ डाटा साइंस पर ज्ञान साझा किया। मणिपाल यूनिवर्सिटी जयपुर के प्रो. राजवीर शेखावत ने एज कंप्यूटिंग के बारे में जानकारी दी।

**प्रातःकाल** Sun, 21 March 2021  
epaper.pratahkal.com/c/592 

## गिट्स में अंतर्राष्ट्रीय कान्फ्रेंस सम्पन्न

उदयपुर, (कास)। गीतांजलि इंस्टीट्यूट आफ टेक्निकल स्टडीज डबोक उदयपुर में राजस्थान तकनीकी विश्वविद्यालय कोटा एवं टेक्निप-थर्ड प्रायोजित दो दिवसीय अंतर्राष्ट्रीय कान्फ्रेंस 'डाटा ड्रिवन कंप्यूटिंग एंड आइ ओ टी -2021' रविवार को सम्पन्न हुआ। इस कान्फ्रेंस में राजस्थान तकनीकी विश्वविद्यालय कोटा के वाइस चांसलर प्रोफेसर आर ए गुप्ता की भूमिका महत्वपूर्ण रही।

संस्थान के निदेशक डॉ. विकास मिश्र के अनुसार इस अंतर्राष्ट्रीय कान्फ्रेंस में इलेक्ट्रॉनिक्स और कंप्यूटर इंजीनियरिंग से सम्बंधित देश-विदेश के शोधकर्ता, फैकल्टी मेंबर्स तथा वैज्ञानिकों ने इनोवेशन एवं शोध के साथ गिट्स के प्लेटफॉर्म पर संयुक्त रूप से सामिल होकर अपने अपने ज्ञान को

- शोध पत्रों की गुणवत्ता को ध्यान में रखते हुए सिर्फ 34 शोध पत्रों को स्वीकार किया गया
- देश-विदेश के शोधकर्ताओं ने अपना ज्ञान साझा किया

साझा किया। संस्थान के आइक्यूएसी निदेशक डॉ. सुधाकर जिंदल ने कहा कि दिन-प्रतिदिन इंटरनेट के यूजर्स बढ़ते जा रहे हैं ऐसे में यदि बिग डाटा और आईओटी का प्रयोग संयुक्त रूप से एग्रीकल्चर, इंपोर्ट एक्सपोर्ट, एमैनुफैक्चरिंग, शिक्षा, स्वास्थ्य आदि समस्त आदि क्षेत्रों होता

है तो नेशन बिल्डिंग में सहायता मिलेगी। कान्फ्रेंस के जनरल चेयर डॉ. राजीव माथुर के अनुसार इस कान्फ्रेंस के लिए देश-विदेश कुल 155 शोध पत्र प्राप्त हुए थे। शोध पत्रों की गुणवत्ता को ध्यान में रखते हुए सिर्फ 34 शोध पत्रों को स्वीकार किया गया। स्वीकृत शोधपत्र विश्व की प्रसिद्ध रिसर्च बुक स्पिंगर नेचर में प्रकाशित किए जाएंगे। इस कान्फ्रेंस में देश विदेश के प्रतिभागियों ने अपने शोधपत्र पढ़े एवं ज्ञान साझा किया। कान्फ्रेंस के ऑर्गनाइजिंग चेयर डॉ. मयंक पटेल ने 2 दिन तक चलने वाले इस कान्फ्रेंस में नामीबिया विश्वविद्यालय, नामीबिया के साइंस एंड टेक्नोलॉजी डिपार्टमेंट के कीनोट स्पीकर प्रोफेसर डॉ धर्म सिंह द्वारा इंडस्ट्री 4.0 के आर्टिफिशियल इंटेलिजेंस के उपयोग, नेशनल

यूनिवर्सिटी, सिंगापुर के प्रो डॉ बिप्लव सिकदार द्वारा आई ओ टी में फिसिकल सिम्योरिटी चैलेंज एंड सोलुशन, आईआईटी पटना के प्रो. राजीव मिश्रा के द्वारा बिग डाटा एंड ग्राफ़ डाटा साइंस पर ज्ञान, मणिपाल यूनिवर्सिटी जयपुर के प्रो. राजवीर शेखावत के द्वारा एज कंप्यूटिंग के बारे में जानकारी दी। यूनिवर्सिटी ऑफ टेक्सास यू एस ए की प्रो डॉ हिना राठौर के द्वारा फेडरल लर्निंग यूसिंग आई ओ टी, आई एस सी बंगलोर के असिस्टेंट प्रो. वैभव कट्टेवा के द्वारा एक्ज्यूसी प्रवेन्ट लर्निंग रोबस्टनेस परसेप्शन बेस्ड कंट्रोल तथा सीटीई के प्रो. डॉ सुनील जोशी के द्वारा आईओटी रिसोर्स मैनेजमेंट एंड चैलेंज पर अपने अपने इनोवेटिव ज्ञान साझा करने के लिए धन्यवाद ज्ञापित किया।



# **FACULTY ACHEIVEMENTS**





# FACULTY ACHEIVEMENTS

The one who utilized their time in these lockdown days were the ones who understand the value of time and the growing competition.

The Faculties of Computer Science Department, Geetanjali Institute Of Technical Studies tried to make their best in these unprecedented times and achieved several milestones.

Many of them attended FDPs, few published their research papers ,etc.

## FACULTY DEVELOPMENT PROGRAM ATTENDED

S.no	Name of Faculty	Title of Event	Type of Event	Date of Event	Organized by	Durations
1	Charu Kavadia	Cyber Security	FDP	8/2/2021 - 12/2/2021	St Agnes College	5 Days
		Recent advancements in Machine Learning and Artificial Intelligence	TEQIP III SPONSORED FDP	16/3/2021- 20/03/2021	Poornima College of Engineering, Jaipur	5 Days
2	Ritesh Kumar Jain	Artificial Intelligence & Machine Learning	FDP	21/ 6/2021 - 25/6/2021	Sri Padmapat Singhanian University	5 Days
3	Ruchi Vyas	FDP on Data Science by ATAL Academy	AICTE Training and Learning (ATAL) Academy Online FDP	1/2/2021 - 5/2/2021	AICTE Training and Learning (ATAL)	5 Days



# RESEARCH PAPERS PUBLISHED

S.No.	Name of the Faculty Member	Research Count	Title of Paper	Name of International Journal/Conference with ISSN/ISBN No.	Publishing year/Date	Paper index
1.	Dr. Mayank Patel	1	Novel Supervised Machine Learning Classification Technique for Improve Accuracy of Multi-Valued Datasets in Agriculture	<a href="#">2021 6th International Conference on Inventive Computation Technologies (ICICT)</a>	Jan. 2021	IEEE, Scopus
		2	Implementation of Grey Scale Normalization in Machine Learning & Artificial Intelligence for Bioinformatics using Convolutional Neural Networks	<a href="#">2021 6th International Conference on Inventive Computation Technologies (ICICT)</a>	Jan. 2021	IEEE, Scopus
		3	Object Detection System	International Research Journal of Modernization in Engineering Technology and Science Volume:03/Issue:05/May-2021	May-21	
2	Dr. Preeti Narooka	1	Automate Application Deployments By Modernizing Ci/Cd Pipelines	International Research Journal of Modernization in Engineering Technology and Science Volume:03/Issue:06/June-2021	Jun-21	
		2	Prediction Of Price In Real Estate Of Udaipur City	International Research Journal Of Modernization In Engineering Technology And Science (IRJMETS), Volume 3, Issue 6, June 2021.	Jul-21	
		3	Efficient Chat bot For Crime Awareness System	International Research Journal Of Modernization In Engineering Technology And Science (IRJMETS), Volume 3, Issue 5, May 2021.	May-21	
3	Mr. Ajay Kumar Sharma	1	Novel Supervised Machine Learning Classification Technique for Improve Accuracy of Multi-Valued Datasets in Agriculture	<a href="#">2021 6th International Conference on Inventive Computation Technologies (ICICT)</a>	Jan. 2021	IEEE, Scopus
		2	Implementation of Grey Scale Normalization in Machine Learning & Artificial Intelligence for Bioinformatics using Convolutional Neural Networks	<a href="#">2021 6th International Conference on Inventive Computation Technologies (ICICT)</a>	Jan. 2021	IEEE, Scopus
4	Mr. Jitendra Sharma	1	Library Management System	International Research Journal Of Modernization In Engineering Technology And Science (IRJMETS), Volume 3, Issue 5, May 2021	May-21	
		2	Vr Gallery: Virtual Reality Based Gallery For Heritage Museum Of Andaman & Nicobar	International Research Journal Of Modernization In Engineering Technology And Science (IRJMETS), Volume 3, Issue 6, June 2021	Jun-21	
		3	Online Crime Record Management System	International Journal of Advances in Engineering and Management (IJAEM) Volume 3, Issue 7 July 2021	Jul-21	
5	Mr. Ritesh Kumar Jain	1	Number Plate Detection System Using Machine Learning	International journal of advances in engineering and management (IJAEM) Volume 3, issue 6 June 2021, pp: 1520-1525 www.ijaem.net ISSN: 2395-5252	Jun-21	
		2	JARVIS: A Virtual Assistant For Smart Communication	International Journal of Advances in Engineering and Management (IJAEM) Volume 3, Issue 6 June 2021, pp: 460-465 www.ijaem.net ISSN: 2395-5252	Jun-21	
		3	Weicare: An Opd & Hospital Management System	International Journal of Advances in Engineering and Management (IJAEM) Volume 3, Issue 6 June 2021, pp: 460-465 www.ijaem.net ISSN: 2395-5252	Jun-21	



6	Ms. Charu Kavadia	1	Earth Moon Explorer	International Research Journal of Modernization in Engineering, Technology and Science Volume:03/Issue:05/May-2021 e-ISSN: 2582-5208 <a href="http://www.irjmets.com">www.irjmets.com</a> pp 2962-2965	May-21	
		2	Developing A Handicraft Website	International Research Journal of Modernization in Engineering, Technology and Science Volume:03/Issue:05/May-2021 e-ISSN: 2582-5208 <a href="http://www.irjmets.com">www.irjmets.com</a> pp 1889-1893	May-21	
7	Ms. Ruchi Vyas	1	Early Prediciton Of Sepsis From Clinical Data	International Research Journal Of Modernization In Engineering Technology And Science (IRJMETS), Volume 3, Issue 6, June 2021	Jun-21	
		2	Detecting Fake Covid 19 News	International Journal for Research in Applied Science & Engineering Technology (IJRASET) Volume 9 Issue VI Jun 2021	Jun-21	
		3	Online Platform For Mentoring Startups	International Journal for Research in Applied Science & Engineering Technology (IJRASET) Volume 9 Issue VI Jun 2021	Jun-21	
8	Mr. Abhishek Gupta	1	Healthcare Chatbot Using Artificial Intelligence	International Research Journal of Modernization in Engineering Technology & Science, Volume:03/Issue:06/June-2021	Jun-21	
		2	Patient Record Tracker	International Research Journal of Modernization in Engineering Technology and Science	Sep-20	
9	Ms. Shipra Sharma	1	3d Ar Mobile Shopping Experience	International Research Journal Of Modernization In Engineering Technology And Science (IRJMETS), Volume 3, Issue 6, June 2021	Jun-21	
		2	Coronavirus Notification System	International Research Journal Of Modernization In Engineering Technology And Science (IRJMETS), Volume 3, Issue 5, May 2021	May-21	
10	Ms. Monika Bhatt	1	Object Detection System	International Research Journal of Modernization in Engineering Technology and Science Volume:03/Issue:05/May-2021	May-21	



# **STUDENT ACHIEVEMENTS**





Academic achievement was once thought to be the most important outcome of formal educational experiences and while there is little doubt as to the vital role such achievements play in student life.

The few existing studies that investigated diverse motivational constructs as predictors of college students' academic achievement above and beyond students' cognitive abilities and prior achievement showed that most motivational constructs predicted academic achievement beyond intelligence and that students' ability self-concepts and task values are more powerful in predicting their achievement than goals and achievement motives.

Achievement motivation energizes and directs behavior toward achievement and therefore is known to be an important determinant of academic success

Here are some of the benchmark set by the glorious and brightest students of our University ..



# Smart India Hackathon 2020 (Hardware Edition)

(21st-24th Dec 2020)

Smart India Hackathon is a nationwide initiative to provide students a platform to solve some of pressing problems we face in our daily lives, and thus inculcate a culture of product innovation and a mind-set of problem solving. The Smart India Hackathon is an initiative by Hon. Prime Minister Mr. Narendra Modi to support vocal for local.

Team One Shot Killers of GITS had been awarded the 1st Winners of the P.S. ID- MK99, under the Ministry of Govt. of Uttarakhand. Students had competed among 360+ teams across India among various renowned Institutes/ Universities and won Rs.1, 00,000. The event is organized by the Ministry of Education and AICTE, MIC, MHRD.

The team gems are Saurabh Srivastava, Milind D Jain and Vishal Jain from Fourth Year, Harshita Jain and Amisha Soni form Third Year, Gautam Anand, Harshal Jain and Jatin Suthar from Second Year of Computer Science and Engineering, achieved this feat.



Under the Guidance of Dr. Mayank Patel Sir & Mr. Latif Khan Sir .

The team received the problem statement on Man-Animal Conflict where wild animals enter into the regions of the farming area and destroy the cultivation of farmers, generally these problems are seen in hilly and was given by Government of Uttarakhand under category of the Agriculture and Rural Development. The team came up with an innovative solution by developing a laser fencing solar operated system which is an eco-friendly method to escape the animals and alert the farmers about the incidental activity at the field. The system has laser fencing system with control unit which is capable of escaping the animals from the field itself.

## Winner Certificates of Students:-









# Agri India Hackathon 2021

(Jan 2021)

Agri India Hackathon is the largest virtual gathering to create dialogues, and accelerate innovations in agriculture. The Agri India Hackathon 2020 is organized by Pusa Krishi, ICAR - Indian Agricultural Research Institute (IARI), Indian Council of Agricultural Research (ICAR) & Department of Agriculture, Cooperation & Farmers' Welfare, Ministry of Agriculture & Farmers' Welfare to promote and support "Aatma Nirbhar Krishi".

Team Agro OSK had participated in the event and had competed among 6000+ startups of India and won Rs.1, 00,000 in the Precision Farming using IoT. There were the stages, which in first round, they shortlisted 300 teams and in second round, they shortlisted 60 teams for the Grand Finale.

The team gems are Saurabh Srivastava, Milind D Jain, Vishal Jain from Fourth Year, Harshita Jain and Amisha Soni form Third Year, Gautam Anand, Harshal Jain and Jatin Suthar from Second Year of Computer Science and Engineering, who have given their non-stop efforts to achieve the position. Under the Guidance of Dr. Mayank Patel Sir & Mr. Latif Khan Sir.



# Winner Certificates of Students:-





## **Indian Innovation Challenge and Design Contest-2019 (IICDC 2019) by Texas Instruments – MyGov Innovation. (Held From 2019-Mar 2021 and Results on May 2021)**

IICDC is a great competition organized by Texas Instruments, DST anchored by IIM-Bangalore under Make in India Initiative. This competitive is a great platform for young engineering students of India to showcase their talent and skill to solve real life problems with optimal solution. From this year this competition has taken to next level. The top 10 teams will get incubation from IIM, Bangalore. The qualifying teams for finals will get 5 Lakhs INR as product development fund.

Overall, it is an excellent platform to convert your ideas into a Start-up with proper mentorship from Texas Instruments and IIM Bangalore.

Students Team One Shot Killers, Saurabh Srivastava, Milind D Jain, Harshita Jain, Vishal Jain, Gautam Anand had cleared Quarter Final rounds in which rewarded by Bronze Certificate and recently, awarded by Silver Certificate in semi-finals round.



# Certificates of Students:-





# Patent Published for Self-Powered Intelligent Bin (05 Feb 2021)

## Application Number – 202011030659 A

(12) PATENT APPLICATION PUBLICATION		(21) Application No.202011030659 A
(19) INDIA		
(22) Date of filing of Application :18/07/2020		(43) Publication Date : 05/02/2021
(54) Title of the invention : SELF-POWERED INTELLIGENT BIN		
(51) International classification	:G06F0003048200, H04N0001000000, H04R0027000000, B65G0043000000, H02H0001060000	(71)Name of Applicant : <b>1)Geetanjali Institute of Technical Studies</b> Address of Applicant :NH-76, Airport Road, Dabok Udaipur Rajasthan India Rajasthan India
(31) Priority Document No	:NA	(72)Name of Inventor : <b>1)Dr. Vikas Misra</b>
(32) Priority Date	:NA	<b>2)Latif Khan</b>
(33) Name of priority country	:NA	<b>3)Saurabh Srivastava</b>
(86) International Application No	:NA	<b>4)Milind D Jain</b>
Filing Date	:NA	<b>5)Harshita Jain</b>
(87) International Publication No	: NA	<b>6)Kritik Jaroli</b>
(61) Patent of Addition to Application Number:	NA	<b>7)Vishal Jain</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	
(57) Abstract : The present subject matter relates to a self-powered intelligent bin (100) comprising a plurality of sensors (102, 103, 104, 105); a solar panel (110) providing the power supply to the bin (100); and a controlling unit (101) controlling the plurality of sensors (102, 103, 104, 105) and sending data collected from each other to an IoT server (109) and a hybrid mobile application through a wireless communication unit. Accordingly, the controlling unit (109) allows the image recognition through an electronic unit (106) for differentiating between the animal and human which detects the human for automatically opening the bin (100), therefore the self-powered intelligent bin is only open if the human comes in front, else it will close.		
No. of Pages : 21 No. of Claims : 8		

The present subject matter relates to a self-powered intelligent bin (100) comprising a plurality of sensors (102, 103, 104, 105); a solar panel (110) providing the power supply to the bin (100); and a controlling unit (101) controlling the plurality of sensors (102, 103, 104, 105) and sending data collected from each other to an IoT server (109) and a hybrid mobile application through a wireless communication unit. Accordingly, the controlling unit (109) allows the image recognition through an electronic unit (106) for differentiating between the animal and human which detects the human for automatically opening the bin (100), therefore the Self-Powered Intelligent Bin only open if the human comes in front, else it will close.



# Patent Published for Self-Powered Wild Animals Intrusion Detection and Alerting System (26 Mar 2021)

## Application Number – 202011048018 A

(12) PATENT APPLICATION PUBLICATION		(21) Application No.202011048018 A
(19) INDIA		
(22) Date of filing of Application :03/11/2020		(43) Publication Date : 26/03/2021
(54) Title of the invention : SELF-POWERED WILD ANIMALS INTRUSION DETECTION AND ALERTING SYSTEM		
(51) International classification	:H02J0007350000, G08B0017000000, A01M0029120000, G01W0001020000, G01D0021020000	(71)Name of Applicant : <b>1)Geetanjali Institute of Technical Studies</b> Address of Applicant :NH-76, Airport Road, Dabok ,Udaipur ,Rajasthan India, 313022 Rajasthan India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)Dr. Vikas Misra</b>
(33) Name of priority country	:NA	<b>2)Dr. Mayank Patel</b>
(86) International Application No	:NA	<b>3)Latif Khan</b>
Filing Date	:NA	<b>4)Saurabh Srivastava</b>
(87) International Publication No	: NA	<b>5)Milind D Jain</b>
(61) Patent of Addition to Application Number	:NA	<b>6)Harshita Jain</b>
Filing Date	:NA	<b>7)Amisha Soni</b>
(62) Divisional to Application Number	:NA	<b>8)Vishal Jain</b>
Filing Date	:NA	<b>9)Gautam Anand</b>
		<b>10)Harshal Jain</b>
		<b>11)Jatin Suthar</b>
(57) Abstract :		
The present subject matter relates to self-powered wild animals intrusion detection and alerting system for protecting and monitoring the agricultural fields from wild attack which shows real time data. The system (100) comprises of 2 different types of control units (101) to resolve the intrusion and alert the owner about intrusion and forest animal detection ; 2 level laser fencing (102); an activating laser (103); a temperature and humidity sensor (109) for temperature and humidity and fire indication; and an image capturing device (106) capturing images and send to the cloud server (114) and mobile application (119); hooters or speakers (110) for irritating loud noises; weather forecasting (117), fog detection (116). Underground Fencing (123); Yellow light (112) and high intensive flashlights (108) to reflect on intrusion side; Sun tracking solar panels (120) to save electricity connected with rechargeable Battery (121) and solar charge controller (122).		
No. of Pages : 20 No. of Claims : 9		

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a temperature and humidity sensor (109) for temperature and humidity and fire indication; and an image capturing device (106) capturing images and send to the cloud server (114) and mobile application (119); hooters or speakers (110) for irritating loud noises; weather forecasting (117), fog detection (116). Underground Fencing (123); Yellow light (112) and high intensive flashlights (108) to reflect on intrusion side; Sun tracking solar panels (120) to save electricity connected with rechargeable Battery (121) and solar charge controller (122).



# Research Papers

## a. **International Journal of Modern Agriculture (Arda Conference) (11/5/21)**

Name of Paper – Self Intrusion Detection System for Protection of Agricultural Fields against Wild Animals

Journal Name and published in- ESCI (WOS).

Published

link- <http://www.modern-journals.com/index.php/ijma/article/view/1077>

Authors – Saurabh Srivastava, Milind D Jain, Harshita Jain, Amisha Soni, Gautam Anand, Jatin Suthar, Harshal Jain, Dr. Mayank Patel, Mr. Latif Khan

Abstract- This paper discloses the method for Man-Animal conflict by using laser fencing system which is based on IoT Technology. The project also takes care of the financial condition of farmers so that the project is operating on solar energy. The system detects the presence of animal and alerts the owner of the field. The system is working through ESP- 8266. The sound creating devices and high intensity lights are used to distract the animals from the field and the day-night vision camera used to capture the image. The fire alertness is also given to the system if in case such kind of fire situations observed. The ThingSpeak server is used in the system to access the data information and a mobile application is maintained.

## b. **International Conference on Emerging Trends in Multidisciplinary Research (ETMDR-2020)**

Name of Paper – Intelligently Regulatory IoT Bin

Journal Name & Published in – SCOPUS (Test Engineering & Management)

ISSN: 0193-4120

Authors – Saurabh Srivastava, Milind D Jain, Harshita Jain, Kritik Jaroli, Vishal Jain, Mr. Latif Khan



**Abstract of paper** - The world is facing a very tremendous problem of waste nowadays. As the countries are becoming more advanced, improper waste management rate is increasing per day which is a serious concern leading to growth of many insects and diseases. This paper discloses the automated bins which is based on IoT Technology which will help in providing a clean environment more efficiently. This paper works on the solar energy so that no electricity been used and is saved. The bin opens automatically whenever the person needs to put the garbage into it. The transportation vehicle used to move in every corner causing lots of fuel consumption and waste of fuel and money. The bin is designed through ATMEGA2560 which is the lifeline for the system. The alert message is sent through GSM to the authority in charge for the security of the bin. The status is been visible on ThingSpeak server and the hybrid mobile Application.

**c. 3rd Symposium for Smart Cities (University of Bahrain) (29 June 2021)**

Name of Paper – Intelligently Regulatory IoT Bin

Published in – IET Inspec-Scopus

Link:

<https://digitallibrary.theiet.org/content/conferences/10.1049/icp.2021.0968>

Authors – Saurabh Srivastava, Milind D Jain, Harshita Jain, Vishal Jain, Mr. Latif Khan, Dr. Mayank Patel

**Abstract:** As the improper waste management problem have took a rapid increase in the world today and is causing and spreading many more air borne diseases which is harming the earth and earth-life. This paper describes an automated bin which works on the solar energy so that no electricity been used instead saved. The bin opens automatically whenever the person comes into contact with it. The transportation vehicle used to roam in every corner causing lots of fuel consumption and waste of fuel and money. The bin regulates and monitors the status of the bin. The bin is designed through ATMEGA2560 which is the lifeline for the system. The alert message is sent through GSM to the authority in charge of the security of the bin. Furthermore, voice recognition feature is also added and detection of toxic gases. The status is been visible on ThingSpeak server and the hybrid mobile Application.



# NPTEL ACHIEVEMENT

Geetanjali Institute Of Technical Studies had achieved many remarkable achievements since its establishment. It has been achieving benchmarks in almost every field. One such field is National Programme on Technology Enhanced Learning (NPTEL).

The star certificate is very rarely achieved by the students. Chinmay Jain, A student of Geetanjali Institute of Technical studies has achieved this star certificate which is a very proud moment for the institutes.



**NPTEL** **swayam**

**DOMAIN CERTIFICATE**

This is to certify that



**CHINMAY JAIN**

has successfully completed all the requirements for SWAYAMPTEL Domain Certification in

**Programming**

(Computer Science and Engineering)

The courses were completed in the period Dec 2020.

*Prof. Devendra Jadhav*  
Prof. Devendra Jadhav  
Chairman  
Centre for Continuing Education, IITM

*Prof. Andrew Thiagaraj*  
Prof. Andrew Thiagaraj  
NPTEL Coordinator  
IIT Madras

Roll No: NPTELDS22000000004

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



**NPTEL** **swayam**

**Course Details**

Course Type	Course Name	Duration	Offering Institute	Course Timeline	Marks Secured (Out of 100)	QR Code
Core	Programming, Data Structures and Algorithms Using Python	8 weeks	Chennai Mathematical Institute	Jul-Sep 2019	94	
Core	Programming in C++	8 weeks	IIT Madras	Jan-Mar 2019	73	
Core	Programming in Java	12 weeks	IIT Madras	Jan-Apr 2019	96	
Core	Data Base Management System	8 weeks	IIT Madras	Jan-Mar 2019	84	
Elective	Introduction to Internet of Things	12 weeks	IIT Madras	Jan-Apr 2020	79	
Elective	Webster Application Development	12 weeks	Pennsylvania State University	Jan-Apr 2020	81	
Total Marks					608	

**Criteria for certification in Programming Domain:**  
The candidate should complete the prescribed 4 core courses and 2 elective courses.

1. Scoring a minimum of 70 marks in each course and should pass the courses too.  
2. Average of all courses in the domain should be >= 80.  
3. Sum of the duration of the courses should be >= 60 weeks.

Scan QR Code





# Placements

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BITS & BYTES



# Placements

The students of Geetanjali Institute Of Technical Studies have continued to make us proud by their excellent placements in different big and renowned companies. The placement details of the Batch January-June 2021 are as follows- :-

S.NO.	STUDENT NAME	DATE	COMPANY NAME	PROFILE	PACKAGE
1	MAYANK VYAS	1/8/2021	JUST DIAL LTD	BUSINESS DEVELOPMENT EXECUTIVE	2.05 LPA
2	GAURI SHRIMALI	1/13/2021	HSBC	TRAINEE SOFTWARE ENGINEER	7.00 LPA
3	SURBHI KHOKHAWAT	1/16/2021	SPARK EIGHTEEN LIFESTYLE	TRAINEE ENGINEER	3.60 - 4.20 LPA
4	PURVI DWIVEDI	1/18/2021	WIPRO	PROJECT ENGINEER	3.50 LPA
5	RIYA SONI	1/22/2021	FUTURENOOB	SOFTWARE DEVELOPER	4.80 LPA
6	DIGVIJAY SINGH	1/27/2021	IEVO	SOFTWARE ENGINEER TRAINEE	2.40 LPA
7	DEVENDRA KUMAWAT	2/21/2021	INFOSYS	SYSTEM ENGINEER	3.60 LPA
8	PURVI DWIVEDI	2/21/2021	INFOSYS	SYSTEM ENGINEER	3.60 LPA
9	HIMANI JAIN	3/22/2021	SHREE NAKODA TILES	SALES EXECUTIVE	3.00 LPA
10	AASHISH LOHAR	3/26/2021	ARCGATE	RESEARCH ANALYST	3.00 LPA
11	BHAVIN BAYATI	3/26/2021	ARCGATE	RESEARCH ANALYST	3.00 LPA
12	CHIRAG VERMA	3/26/2021	ARCGATE	RESEARCH ANALYST	3.00 LPA
13	GOURAV PURI GOSWAMI	3/26/2021	ARCGATE	RESEARCH ANALYST	3.00 LPA
14	HEENA KUMAWAT	3/26/2021	ARCGATE	RESEARCH ANALYST	3.00 LPA
15	HIMANI JAIN	3/26/2021	ARCGATE	RESEARCH ANALYST	3.00 LPA
16	HIMANI PUROHIT	3/26/2021	ARCGATE	RESEARCH ANALYST	3.00 LPA
17	MAYANK VYAS	3/26/2021	ARCGATE	RESEARCH ANALYST	3.00 LPA
18	NIKHIL SUHALKA	3/26/2021	ARCGATE	RESEARCH ANALYST	3.00 LPA
19	NIKITA CHAOUHAN	3/26/2021	ARCGATE	RESEARCH ANALYST	3.00 LPA
20	RAJVEER SINGH CHOUHAN	3/26/2021	ARCGATE	RESEARCH ANALYST	3.00 LPA
21	RAMAN KUMAR	3/26/2021	ARCGATE	RESEARCH ANALYST	3.00 LPA
22	UPENDRA JAIN	3/26/2021	ARCGATE	RESEARCH ANALYST	3.00 LPA
23	VINAY PRATAP SINGH SOLANKI	3/26/2021	ARCGATE	RESEARCH ANALYST	3.00 LPA
24	HIMANSHI RATHORE	4/21/2021	PLANET SPARK	BUSINESS DEVELOPMENT TRAINEE	5.90 LPA
25	RAJ PALIWAL	4/24/2021	NINETY ONE	SOFTWARE DEVELOPER	5.50 LPA
26	MAYANK VYAS	5/22/2021	KUKU FM	CONTENT ACQUISITION EXECUTIVE	3.00 LPA
27	PURVI DWIVEDI	6/3/2021	ACCENTURE	ASSOCIATE SOFTWARE ENGINEER	4.50 LPA



# CODECHEF



```
#selection at the end --add back the deselected mirror modifier object
mirror_ob.select= 1
modifier_ob.select=1
bpy.context.scene.objects.active = modifier_ob
print("Selected" + str(modifier_ob)) # modifier ob is the active ob
#mirror_ob.select = 0
```



# CodeChef GITS Chapter

We are aspiring students who like to code. We organize events, quizzes, and host competitions on Codechef Platforms for students of our campus to make them aware of the nitty-gritty of Competitive Coding. To those who are new to this term, Competitive programming is a mind sport usually held over the Internet or a local network, involving participants trying to program according to provided specifications. Through Competitive Coding, we seek to enhance our problem-solving abilities and analytical skills to crack Coding Rounds in Placement Interviews.





## What Is A CodeChef College Chapter?

CodeChef College Chapter is the programming club run and maintained by the official chapter leaders and mentored by CodeChef. A team of 4 students is required. To gain this opportunity the team has got to pass 3 rounds. The first is to apply for the CodeChef college chapter. In the second round, we have to face the interview and at last, we have to organize one online workshop. After successfully completing these 3 steps our team successfully established the CodeChef college chapter in October.

To Guide our Codechef team in the right direction we have our CodeChef Faculty Advisor

- ***Dr. Mayank Patel***
- ***Mr. Bhupendra Teli***

To execute all events our CodeChef team members works in a guided direction to successful conduct an event:

- ***President - Veer Bhadra Singh Solanki***
- ***Events Lead - Purva Vijay***
- ***Competitive Programming Lead - Harsh Soni***
- ***Outreach and Media Lead - Divy Pagariya***



# EVENT 1

This coding contest was organized by CodeChef to make aware the students of Computer Science and Engineering on programming and logic. It was conducted on 2 February 2021. The name of the event was Code-Clash! . The number of participants were 30. It was conducted in virtual mode using CodeChef Platform. The event was organized by the CodeChef GITS Chapter and Codechef.

## Faculties in Event:

1. Dr. Mayank Patel
2. Mr. Bhupendra Kumar Teli

## Students in Event:

1. Veer Bhadra Singh Solanki - 3year
2. Purva Vijay - 3year
3. Divy Pagariya - 2year
4. Harsh Soni - 2year Students

## Winners:

1. Krishnapal Singh Deora - 3year
2. Dalpat I - 3year
3. Bhavy Chawda - 2year

## Students Feedback For Future:

1. Conduct Monthly Coding Competition.
2. Conduct Quiz, Webinar, etc.



# EVENT 2

This coding contest was organized by CodeChef to make aware the students of Computer Science and Engineering on programming and logic. It was conducted on 8 March 2021. The name of the event was Code-Clash! . The number of participants were 60 . It was conducted in virtual mode using CodeChef Platform. The event was organized by the CodeChef GITS Chapter and Codechef.

## Faculties in Event:

- 1.Dr. Mayank Patel
- 2.Mr. Bhupendra Kumar Teli

## Students in Event:

- 1.Veer Bhadra Singh Solanki - 3year
- 2.Purva Vijay - 3year
- 3.Divya Pagariya - 2year
- 4.Harsh Soni - 2year Students

## Winners:

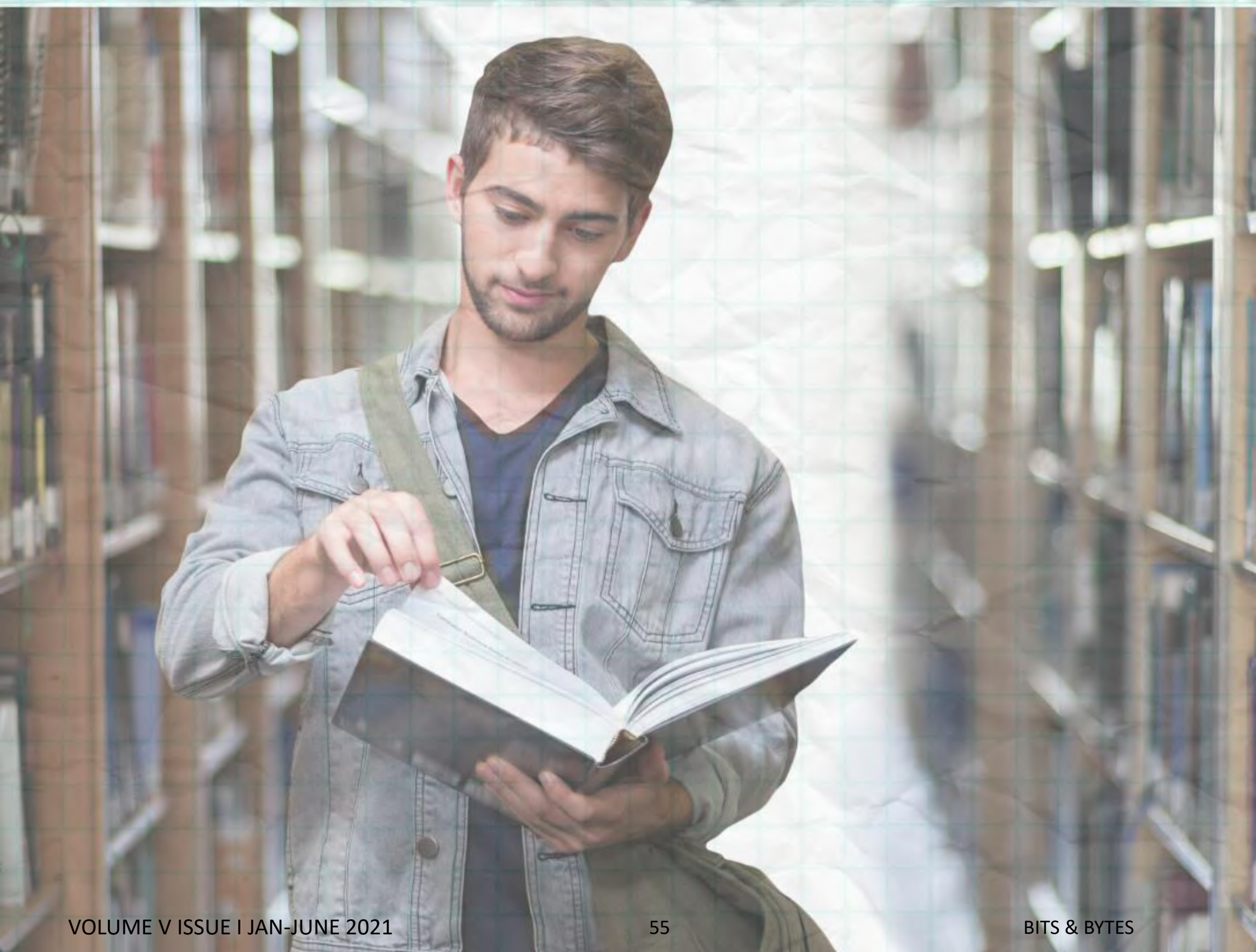
- 1.Rhythm Bhiwani - 4year
- 2.Ritik Nanawati - 3year
- 3.Krishnapal singh Deora - 3year

## Students Feedback For Future:

1. Conduct Monthly Coding Competition.
2. Conduct Quiz, Webinar, etc.



# ACADEMIC ACHIEVERS





Topping University is not a sudden result it requires your commitment of time from the initial study to final examination. Merely hard study is not enough to become topper of the university. Topper have some extra understanding regarding examination. Because topper not only study for knowledge, they also make study plan/ strategy to score more numbers. The students of Geetanjali Institute Of Technical Studies have achieved excellent performance in the RTU examination .





## VII SEMESTER



Zenab Wagla wala  
17EGICS124  
87.60%



Gauri Shrimali  
17EGICS030  
86.93%



Riya Soni  
17EGICS092  
86.40%



PURVI DWIVEDI  
17EGICS083  
85.47%



Rhythm Bhiwani  
17EGICS090  
85.07%





AAKANKSHA SAMOTA  
18EGICS001  
9.57 SGPA



VIPLOV JIWNANI  
18EGICS104  
9.52 SGPA



KRISHNAPAL SINGH DEORA  
18EGICS046  
9.43 SGPA



DIVYA SONI  
18EGICS027  
9.39 SGPA



HIMANSHI PALIWAL  
18EGICS034  
9.24 SGPA



# NPTTEL





# NPTEL

National Programme on Technology Enhanced Learning (NPTEL) is a project of MHRD initiated by seven Indian institutes of Technology ( Bombay , Delhi , Kanpur , Kharagpur , Madras , Guwahati and Roorkee) along with the Indian Institute of Science , Bangalore in 2003 , to provide quality education to anyone interested in learning from the IITs. The main goal was to create web and video courses in all major branches of engineering and physical sciences at the undergraduate and postgraduate level.

The students of Geetanjali Institute Of Technical Studies also took advantage of the same and excelled in various courses. Some students even achieved Elite, Silver and Gold certificates too. Details of the same are as follows :-



<b><u>S.No.</u></b>	<b><u>Course Id</u></b>	<b><u>Course Name</u></b>	<b><u>Name of Student</u></b>	<b><u>Certificate Type</u></b>
1	noc21-cs02	Programming in C++	Pratik Kanthaliya	Elite
2	noc21-cs02	Programming in C++	Sejal Rathor	Elite
3	noc21-hs04	Emotional Intelligence	Anisha Shaktawat	Elite
4	noc21-hs05	Speaking Effectively	Devanshi Minda	Elite+Silver
5	noc21-hs05	Speaking Effectively	Dheeraj Jain	Elite
6	noc21-mg28	Marketing Management - II	Kartik Agarwal	Successfully completed
7	noc21-mg28	Marketing Management - II	Kashish Joshi	Successfully completed





Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to  
**DEVANSHI MINDA**  
for successfully completing the course

## Speaking Effectively

with a consolidated score of **78** %

Online Assignments	20.54/25	Proctored Exam	57/75
--------------------	----------	----------------	-------

Total number of candidates certified in this course: **3145**

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

Jan-Mar 2021  
(8 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Roll No:NPTEL21HS05S12460094

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



# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to  
**KASHISH JOSHI**  
for successfully completing the course

## Marketing Management - II

with a consolidated score of **47** %

Online Assignments	14/25	Proctored Exam	33/75
--------------------	-------	----------------	-------

Total number of candidates certified in this course: **322**

Prof. Rajesh M. Hegde  
Chairman, Centre for Continuing Education  
IIT Kanpur

Jan-Mar 2021  
(8 week course)

Prof. Satyaki Roy  
NPTEL Coordinator  
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No:NPTEL21MG28S12460057

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





Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to  
**DHEERAJ JAIN**  
for successfully completing the course

## Speaking Effectively

with a consolidated score of **70** %

Online Assignments	23.04/25	Proctored Exam	46.5/75
--------------------	----------	----------------	---------

Total number of candidates certified in this course: **3145**

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

Jan-Mar 2021  
(8 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



Id No: NPTEL21HS05512460021

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



Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to  
**PRATIK KANTHALIYA**  
for successfully completing the course

## Programming in C++

with a consolidated score of **65** %

Online Assignments	19.5/25	Programming Exam	25/25	Proctored Exam	20/50
--------------------	---------	------------------	-------	----------------	-------

Total number of candidates certified in this course: **280**

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

Jan-Mar 2021  
(8 week course)

Prof. Debjani Chakraborty  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur







Elite

# NPTEL Online Certification

(Funded by the Ministry of HRD, Govt. of India)



This certificate is awarded to

**SEJAL RATHOR**

for successfully completing the course

**Programming in C++**

with a consolidated score of **60** %

Online Assignments	14.96/25	Programming Exam	25/25	Proctored Exam	20/50
--------------------	----------	------------------	-------	----------------	-------

Total number of candidates certified in this course: **280**

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

**Jan-Mar 2021**  
(8 week course)

**Prof. Debjani Chakraborty**  
Coordinator, NPTEL  
IIT Kharagpur



Indian Institute of Technology Kharagpur



I No:NPTEL21CS02S22460099

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



# ALUMNI INTERACTION





# Alumni Interaction

Alumni serve many valuable roles, such as helping to build and grow an institution's brand through word-of-mouth marketing. It was an online alumni interaction held on 10th April 2021 between 10:00 AM - 12:00 PM by Mr. Ayush Vyas, (2016) Co-Founder, Udaipur Vibes, Udaipur. There was a total of 70 participants. This event was organized by the CSE alumni club and the Department of Computer Science. This online interaction is organized to give career guidance to our students for better career opportunities.

The poster is for an alumni interaction event. At the top, it features the Geetanjali Institute of Technical Studies logo, which includes a stylized 'G' and 'I' with a lamp icon and the motto 'तमसो मा ज्योतिर्गमय' (Darkness to Light). Below the logo, the text reads 'Department of Computer Science & Engineering' and 'Alumni Interaction'. The topic of the event is 'Topic: How to become an Entrepreneur'. A circular portrait of Mr. Ayush Vyas, a young man with dark hair wearing a green and blue striped shirt, is featured. To the right of the portrait, the date and time '10th April-2021 10:00 AM' are listed, along with the Google Meet logo. At the bottom, the text identifies him as 'Mr. Ayush Vyas Co-Founder , Udaipur Vibes (Startup, 2018)'. In the bottom right corner, the phrase 'Our Alumni Our Proud' is written in yellow.

**GEETANJALI**  
INSTITUTE OF TECHNICAL STUDIES

Department of Computer Science & Engineering

**Alumni Interaction**

**Topic: How to become an Entrepreneur**

**10th April-2021  
10:00 AM**

Google Meet

**Mr. Ayush Vyas**  
**Co-Founder , Udaipur Vibes**  
**(Startup, 2018)**

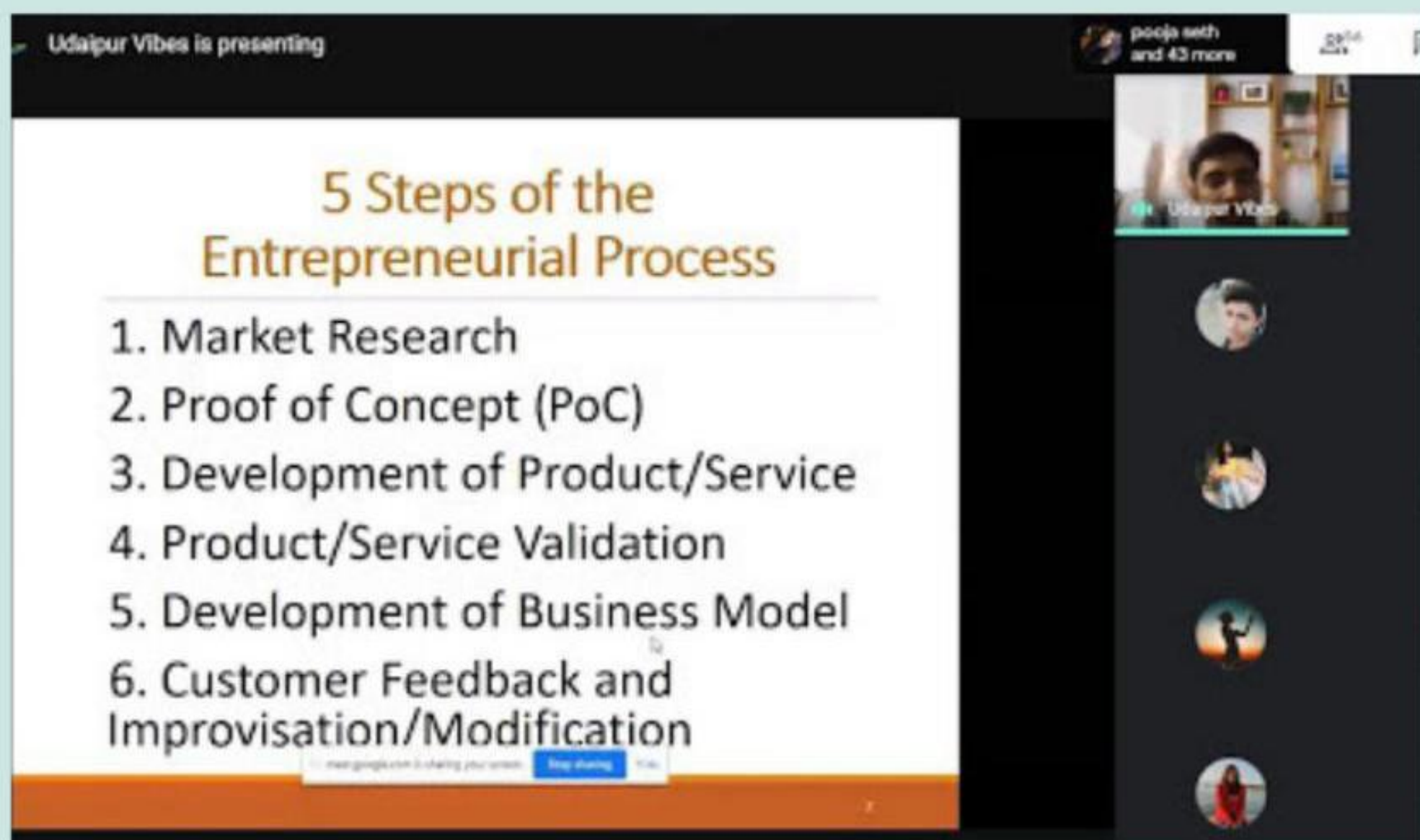
**Our Alumni  
Our Proud**



Mr. Ayush Vyas guided his juniors about “How to Become Entrepreneur”. He explained that an entrepreneur is one who undertakes the risk associated with creating, organizing and owning a business. He also summarized the role of a Digital marketing in various field, several domain of expertise one can pursue for one’s professional growth.

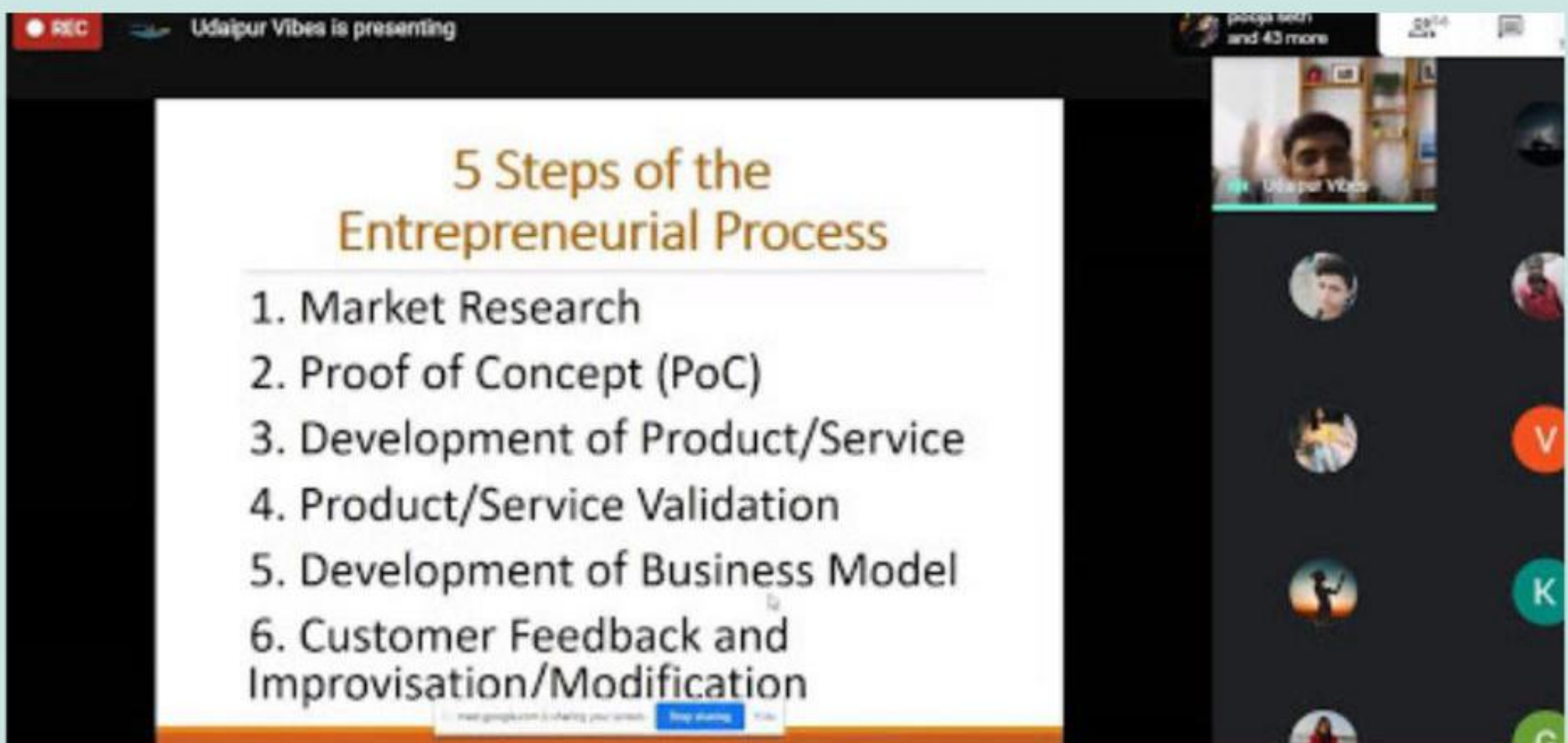
He also discussed personal characteristics of successful entrepreneurs and also discussed various skills required are:

1. Identify profitable startup ideas.
2. Identify and focus on a growing category (or categories).
3. Make something better (or cheaper) than what's out there.
4. Validate your startup idea with buyer persona research.
5. Create a business plan.
6. Continue to iterate based on feedback.
7. Communication, Human and Math skills required for becoming an good entrepreneur.



The screenshot shows a Zoom meeting interface. At the top, a banner reads "Udaipur Vibes is presenting". In the top right corner, there are icons for "poorja seeth and 43 more" and "8:16 AM". The main part of the screen displays a presentation slide with the title "5 Steps of the Entrepreneurial Process" in orange and black text. The slide lists six steps: 1. Market Research, 2. Proof of Concept (PoC), 3. Development of Product/Service, 4. Product/Service Validation, 5. Development of Business Model, and 6. Customer Feedback and Improvisation/Modification. On the right side of the screen, there is a vertical strip showing video thumbnails of participants, including one labeled "Udaipur Vibes". At the bottom of the slide, there is a small text box that says "meeting.google.com is sharing your screen" and a "Stop sharing" button.







# ARTICLES

## What's News

### Business & Finance

■ **Administration unveils details of its financial plan, with bank regulators that will examine**

### World-Wide

■ **Obama will propose \$634 billion in new tax increases**  
The tax increases will be phased



# ARTICLES

## *Now Is The Time For You To Know The Truth About Fintech.*

**Veer Bhadra Singh Solanki**  
III Year, VI Sem  
Sec B



### **What is Fintech?**

Fintech is a combination of the words "financial" and "technology," FinTech is the catch-all term that applies to any technology that helps consumers or financial institutions deliver financial services in a novel, more convenient way.

### **Banking with FinTech**

1. Users can track how their money moves from one account to another in real-time
2. Online banking is available 24\*7
3. Users can easily transfer the money fastest through banking apps without visiting banks.



## The Role of Cyber Security in Fintech

CyberSecurity plays an important role in Fintech because there's a lot of sensitive information involved in banking, and cybersecurity is non-negotiable. Financial institutions(Banks) must have robust cybersecurity measures to protect the data of consumers from hackers and spammers.

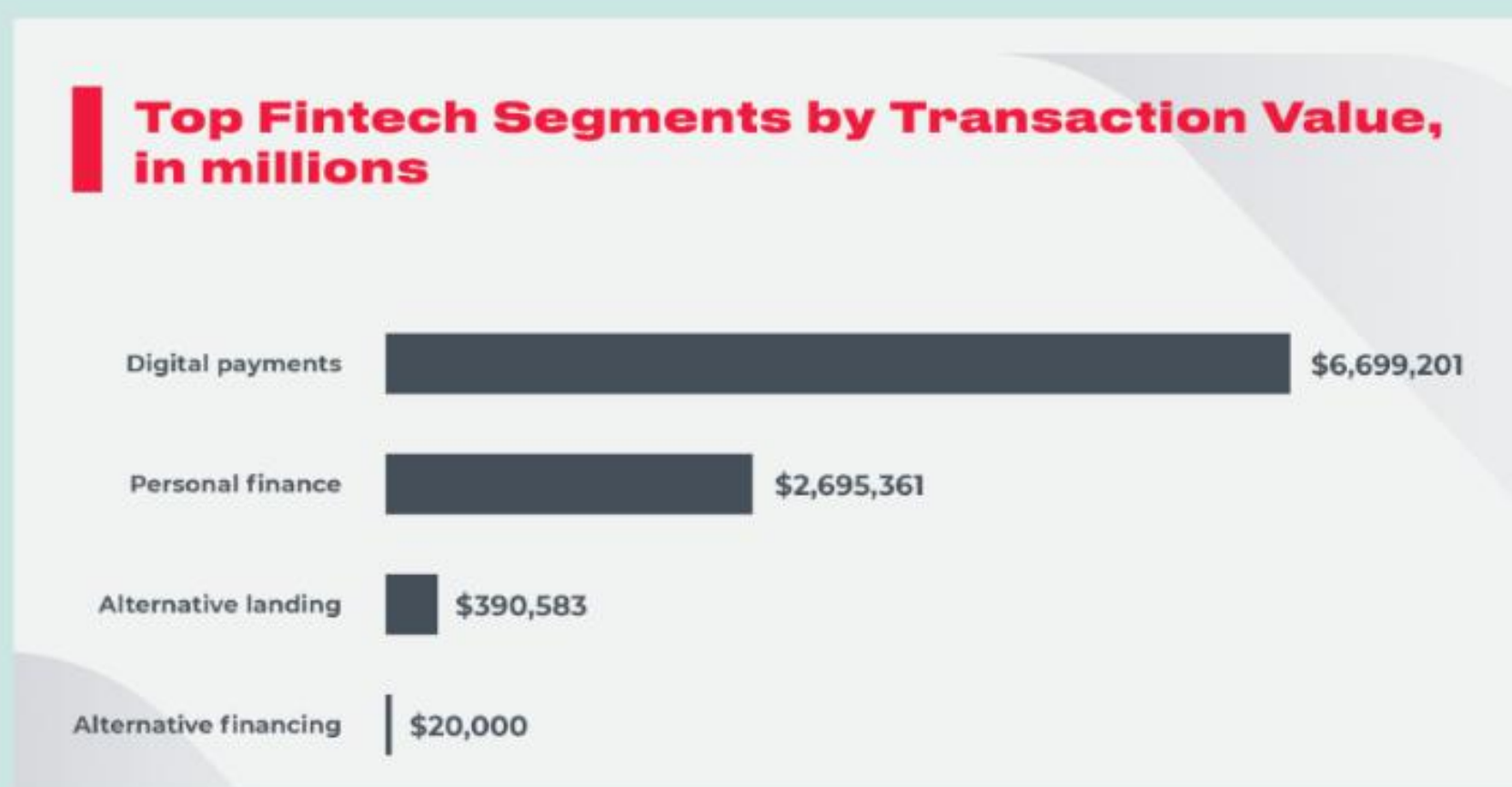
## Best Security for Fintech

We can provide security by securing our architecture and code of platform. Also with next-level data protection and encryption and secure authentications.

## FinTech segments according to transaction value

From the last couple of years digital payments growth increased rapidly and it

1crossed \$6,699,201 according to Statista.



## Conclusion

Fintech has transformed banking for better experience to customers. Financial institutions were able to provide an easy, a seamless digital platform for online banking.



# ***Edge Computing***

Viplov Jiwnani  
III Year IV Sem  
Sec B

Formerly a new technology trend to watch, cloud computing has become mainstream, with major players AWS (Amazon Web Services), Microsoft Azure and Google Cloud Platform dominating the market. The adoption of cloud computing is still growing, as more and more businesses migrate to a cloud solution. But it's no longer the emerging technology trend. Edge is.



## **Edge Computing as Mini Datacenter**

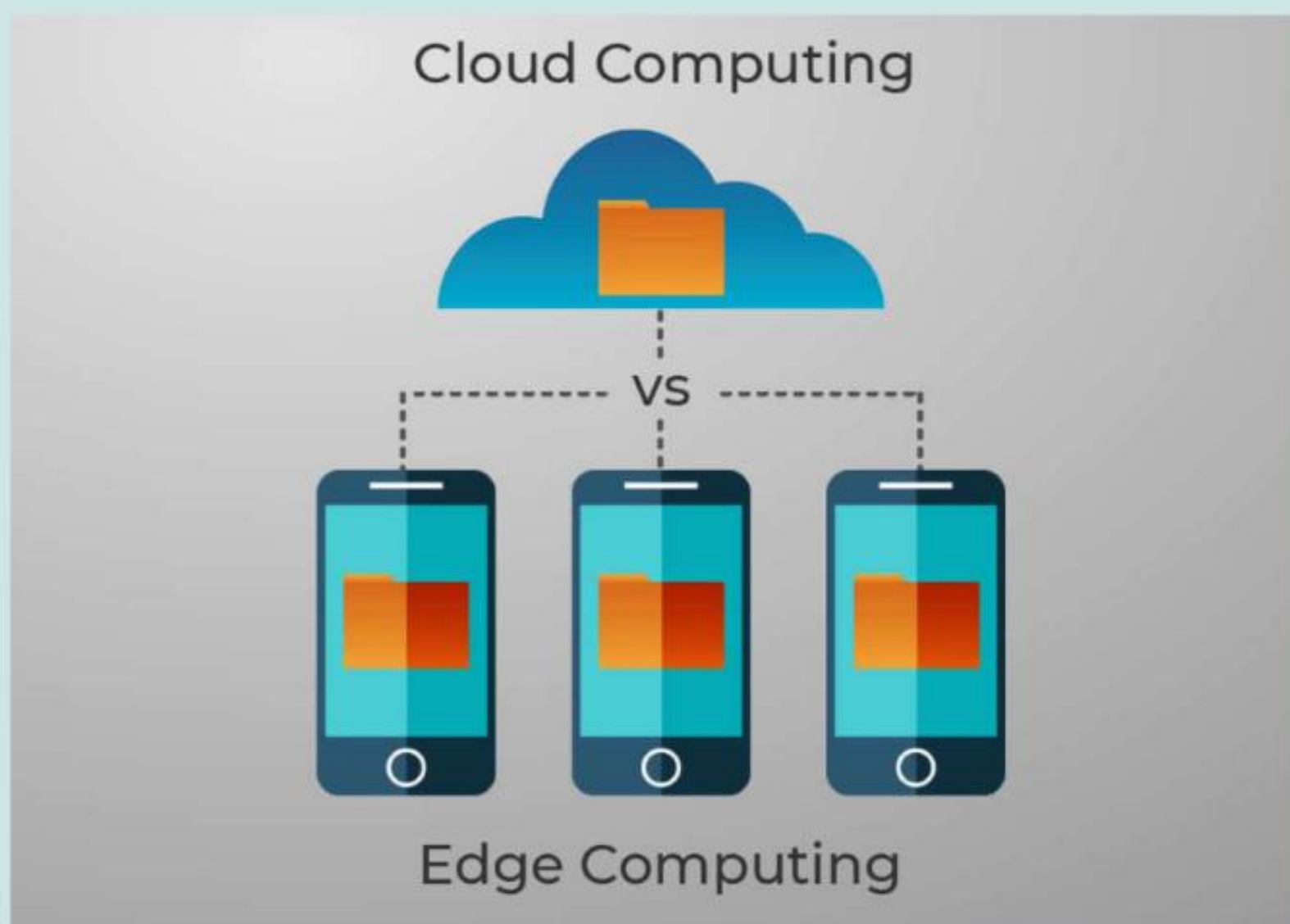
As the quantity of data organizations are dealing with continues to increase, they have realized the



shortcomings of cloud computing in some situations. Edge computing is designed to help solve some of those problems as a way to bypass the latency caused by cloud computing and getting data to a datacenter for processing. It can exist “on the edge,” if you will, closer to where computing needs to happen. For this reason, edge computing can be used to process time-sensitive data in remote locations with limited or no connectivity to a centralized location. In those situations, edge computing can act like mini datacenters.

## Benefits of Edge Computing over Cloud Computing

- Better data management
- Lower Connectivity costs and better security practices
- Reliable, uninterrupted connection





## **Future Aspects**

Edge computing will increase as use of the Internet of Things (IoT) devices increases. By 2022, the global edge computing market is expected to reach \$6.72 billion. And this new technology trend is only meant to grow and nothing less, creating various jobs, primarily for software engineers.

## **Conclusion**

Edge computing reduces the amount of data flowing to and from the primary network, leading to lower latency and faster overall speed.



UNTIL NEXT TIME...

Thank you!

Contact us at:

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