DR. AKHILESH DAS GUPTA INSTITUTE OF TECHNOLOGY & MANAGEMENT

Pixion

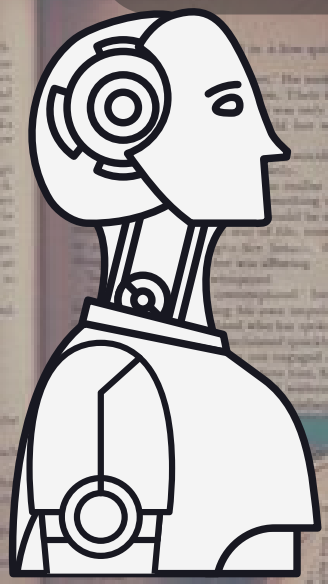
THE IT MAGAZINE

JAN-JULY 2021

PIXION

THE IT MAGAZINE

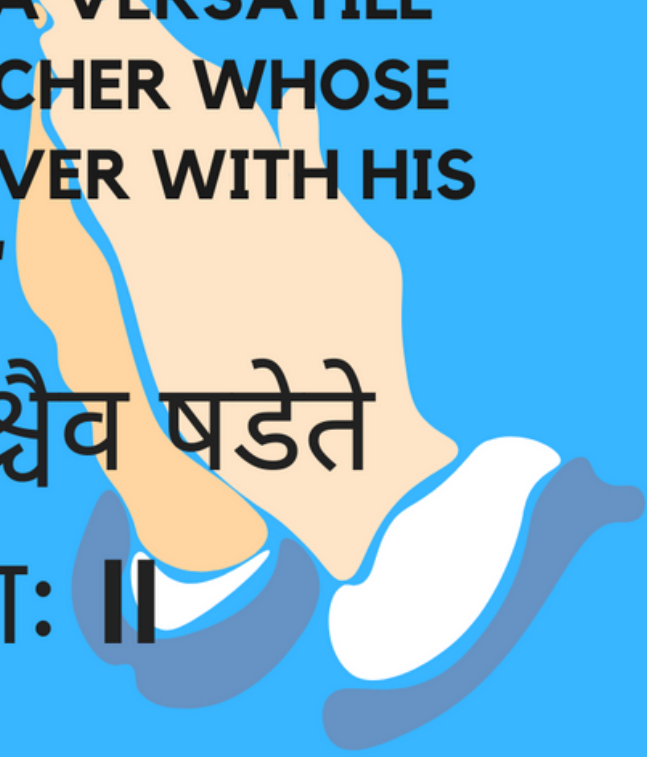
"FAILURE WILL NEVER OVERTAKE ME IF MY DEFINITION TO SUCCESS IS STRONG ENOUGH"
-DR. APJ ABDUL KALAM



A TRIBUTE TO DR. AKHILESH DAS GUPTA

प्रेरकः सूचकश्चैव वाचको दर्शकस्तथा ।

**"THERE IS NO GREATER TRIBUTE TO A GURU THAN TO MAINTAIN THE HIGH STANDARDS HE LIVED BY;
DR. AKHILESH DAS GUPTA'S LEGACY IS ONE SUCH THAT WILL LIVE ON THROUGH HIS EMINENT STUDENTS AND THROUGH THE BEAUTY OF HIS CHARITABLE WORK;
THERE WAS AN INTENSITY THAT HE BROUGHT TO EVERY MOVEMENT AND THOUGHT HE EXPRESSED;
AN INSPIRING SOUL, A VERSATILE GENIUS, A NOBLE TEACHER WHOSE IDEAS WILL LIVE FOREVER WITH HIS CHARM."**



शिक्षको बोधकश्चैव षडेते गुरवः स्मृताः ॥

Our Patrons

Late Shri Babu Banarasi Das Ji
(1912-1985)

Late Dr. Akhilesh Das Gupta
(1961-2017)

Mrs. Alka Das Gupta

Mrs. Alka Das Gupta

Hon'ble Chairperson
BBD Group

Innovation requires passionate explorers who propel transformation at the workplace. With an ever-changing global scenario, the key to success is responding to the complex and rapidly changing issues in the world of information technology. The Department of Information Technology of ADGITM is always making efforts to justify these points.

We impart an education that is based on consciousness and we rear a breed of young minds that are bustling with self-confidence, motivation, and ever ready to take up challenges. The campus, sports, and academic facilities all bear testimony to this effort. In order to promote an internationally acceptable education, our key focus has been on overall development.

Proficiency in computing technology has become essential for modern-day managers, business leaders, entrepreneurs, and other professionals. It is a welcome development. I look forward to PIXION 2021 setting a higher pedestal.

I wish to PIXION editorial team a grand success!

Shri Viraj Sagar Das

Hon'ble President
BBD Group

I feel so delighted to find that the path of creativity and innovation is consistently followed by the Department of Information Technology. It always encourages its students to actively participate and compete in various competitions and events to show their abilities towards the new platforms of technology.

A great part of the magazine is the fact that it brings us a bouquet of topics which are of utmost relevance and interest to all. It is a great pleasure for me to get to know all the activities and achievements of the Department of Information Technology of Dr. Akhilesh Das Gupta Institute of Technology & Management in the form of such an interactive read.

I convey my best wishes for the success of PIXION 2021.

Sh. S. N. Garg

CEO
ADGITM

Through the guidance of trained and inspired leaders, the students are taken across the gap of their present knowledge and experience and place data level of knowledge and competence that enables them to immediately step into the high standard of efficiency required in today's world of development.

We aim to cultivate talents by closely nurturing them throughout the whole programme. We are unique in terms of our programs, academic structure and core values. Our students are our assets. We develop our students to open them up in front of global scholarly endeavour. While the whole world is running after chances, it is essential to create your own opportunity.

Prof. (Dr.) Sanjay Kumar

Director
ADGITM

In his book On Becoming a Leader, Warren Bennis wrote, “No leader sets out to be a leader. People set out to live their lives, expressing themselves fully. When that expression is of value, they become leaders. So the point is not to become a leader. The point is to become yourself, to use yourself completely – all your skills, gifts and energies – in order to make your vision manifest. You must withhold nothing. You, must, in sum, become the person you started out to be, and to enjoy the process of becoming.”

We at Dr. Akhilesh Das Gupta Institute of Technology & Management believe in helping students to manifest their vision completely. How do we do this? We offer a rigorous education program rooted in all forms of practice, coupled with a vast array of electives and opportunities that come from our position of being affiliated to a major university. We give you the tools to continue learning and growing long after you leave our doors; we create opportunities for internships and experiences that broaden your horizons. I take this opportunity to express the fact that every effort is made to improve the existing best services to bring out the best for the welfare of our institution and the growth of our students.

Prof. (Dr.) Yamini S.

Principal, Director IQAC
ADGITM

A thought that has been enduring in mind when it becomes real; is truly an interesting and exciting experience. PIXION is one such cherished work that had its roots in persuasion. It would be a snapshot of the various activities and advancements for all associated with the Department of Information Technology at Dr. Akhilesh Das Gupta Institute of Technology & Management. Proper communication plays a vital role in an institution's development. This Magazine will serve to reinforce and allow increased awareness and technological advancements in the field of Human-Computer Interaction.

HCI is a multidisciplinary subject that focuses on computer design and user experience. It brings together expertise from computer science, cognitive psychology, behavioral science, and design to understand and facilitate better interactions between users and machines. Our students and teachers have been constantly working towards incorporating these concepts and methods to creatively solve the problems of today.

I am confident that this issue of Departmental Magazine will send a positive signal to the staff, students and the person who are interested in the Technical Education and Technology based activities.

I hope that this culture of releasing the Department Magazine continues forever and becomes a quoted example for all other colleges to follow.

Dr. Prashant Singh

Head of Department,
Dean Academics
ADGITM

Welcome to have a view of the achievements and activities of the Department of Information Technology with the help of this semester's publication of **PIXION**.

We are proud of our strong academic programs, which are based on theoretical and practical knowledge and match well with the requirements and demands of the industry. We have been working in the field of HCI (Human-Computer Interaction) which is an emerging technology. HCI researchers observe the ways humans interact with computers, and they design technologies that let humans interact with computers in novel ways. We are committed to students by offering short term courses and pre-placement training classes that foster critical and analytical thinking and build the necessary skills to succeed in the industry.

I am sure in times to come, many students from our department will make indelible mark nationally and internationally in the field of Information Technology and make us proud. The hard-working students, a young and dynamic faculty, whose expertise spans the range of disciplines in the computer science stream and a very healthy work-culture, are the basic elements that comprise the Department of Information Technology.

ADGITM VISION & MISSION

VISION

“To produce globally competent and socially responsible technocrats and entrepreneurs who can develop innovative solutions to meet the challenges of 21st century.”

MISSION

- **To produce value-based education through multi-grade teaching methodologies and modern facilities.**
- **To sustain an active partnership program with industry and other academic institutes to promote knowledge and resource sharing.**
- **To conduct a value-added training program to enhance employability**
- **To produce a conducive environment for the development of ethical and socially responsible technocrats, managers, and entrepreneurs.**

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DEPARTMENT AT A GLANCE

VISION

"To produce successful IT graduates with a strong technical background and managerial skills for promoting growth in industry and society. "

MISSION

M1: To provide managerial and professional skills among the students through value added programs.

M2: To provide an atmosphere where faculty and students can be engaged in continuous learning and contribute in the overall growth of the society.

M3: To provide industry oriented technical environment to help students excel in diversified fields.

STUDENT'S SECTION

TECHNICAL ARTICLES

Deep Learning and neural networks

The world that we are living in today mostly functions on big data where all areas of research and entertainment create a huge amount of data. The outbreak of smartphones with professional quality cameras has resulted in a huge number of images and video data. This data is of great potential for targeted marketing by providing information about people and their interests to big companies like Facebook, Amazon. Hence, we face obstruction in analyzing and interpreting this data. Machine learning and deep learning enter here and are great tools to resolve this problem. Deep learning provides a large set of learning algorithms than traditionally used single methods. These algorithms are used to learn complex predictions models with various hidden features. For example, an in-depth learning approach sets the record for the digitization of handwritten MNIST system data for input fields including natural language understanding, acoustic modeling, computational biology, and speech recognition. NLP is providing machines closest understanding of human language as it varies from person to person. Currently, NLP is used to analyze social media posts and public interests. It is also used in form of chatbots to resolve customer problems. Governments also use NLP to prevent national security breaches and protect their boundaries.

One of the most popular achievements of AI has been of AlphaGo which defeated a human world champion in one of the most complex games, Go. The tree search in AlphaGo was able to calculate moves by DNN. The model had been trained by reinforcement learning by playing with itself and also by supervised learning. This type of NN improved itself by strengthening its search trees thereby improving the performance.

Neural networks are much like the human brain and are made of layers of nodes. Each node within layers is attached to adjoining layers. The more the layers deeper is the NN. Every node is weighted differently and provides corresponding weights to different alerts just like human brains.

The final layer compiles the weighted inputs' to provide an output. All these processes require powerful computers to compute the large data and provide meaningful results which can take days to be computed.

NIKITA GARG
STUDENT

MR. ANKIT AGARWAL,CSE
ASSISTANT PROFESSOR

Impact of deep learning in big data analytics

Big Data Analytics and Deep Learning are two high-focus of data science. Big Data has become important as many organizations both public and private have been collecting massive amounts of domain-specific information, which can contain useful information about problems such as national intelligence, cybersecurity, fraud detection, marketing, and medical informatics. Deep learning applications are becoming the next big trend in data analytics. While AI and machine learning are developing at a rapid rate and will have an impact on the industry as a whole, deep learning is already making a tangible mark on the industry. Data analysts are using deep learning to optimize data collection and analysis.

Big Data generally refers to data that exceeds the typical storage, processing, and computing capacity of conventional databases and data analysis techniques. As an asset, Big Data requires devices and techniques that can be applied to dissect and extricate designs from huge scope information. The ascent of Big Data has been brought about by expanded information stockpiling capacities, expanded computational handling force, and accessibility of expanded volumes of information, which give associations a bigger number of information than they have registering assets and advances to measure. To uncover information such as hidden patterns, correlations, market trends, etc a rather complex process known as big data analytics is used to scrap useful information from big data. Big Data analytics is a form of advanced analysis which includes features like predictive models, statistical algorithms. It is the job of data analysts to review, analyze and report on big data stored and maintained by an organization. Big data analysts have a similar job description and skill set as that of data analysts, but they specialize in the analysis of big data or big data analytics.

The goodness of the data representation has a large impact on the performance of data analytics. So, the general focus of the whole processing is that how the data is being inputted and how the generalization of the learnt patterns for use of future unseen data is stored. While machine learning algorithms are used for the representation of the input data it is the Deep Learning algorithms that provides promising avenue of research into the automated extraction of complex data representations at high levels of abstraction. Deep learning and machine learning are often confused to be same but are in reality a lot different. Machine learning is an algorithm that learns data analysis with experience while deep learning uses a neural network where the function is similar to a human brain. In other words, deep learning is an evolution of machine learning. Deep learning is a series of non-linear processing units. The processing units take the information from previous units and further refine the data analysis process.

This means deep learning can be used to improve data collection and analysis. Deep learning can be a huge asset and can help in cutting down the man hours for data analysts as they spend huge amount of time on prepping raw data. It implies information experts can invest less energy on tedious work and additional time on better quality undertakings. Efficiency will improve and activities will be undeniably more productive. This is on the grounds that deep learning applications can perform double the work in a fraction of the time.

Deep learning applications are going to play a huge role in data collection and analysis. The ability to filter data analysis through multiple layers of processing units can refine analysis processes, making it easier to glean useful insights at a much faster rate than before. Discovering useful insights, while working with complex data is much easier when deep learning is involved because AI technology can do much of the heavy lifting in data collection and analysis.

YASHIKA DHAL
STUDENT

MS. PRIYANKA SINGH,CSE
ASSISTANT PROFESSOR

How UI effects and interacts with human emotions

Human-computer interaction looks at how people interact with computers. It’s a community of people studying and practicing user experience design, user research, software development, and more. The close integration of research and practice makes this field extremely unique.

Presentation drives conduct:

Show influences discernments, and thus drives and coordinates how clients react and act. How we present a model's forecasts conveys a weighty obligation worth pondering. For instance, when I get an item suggestion, an engineer could decide to incorporate a piece clarifying that I got this proposal because my companions have likewise loved the item. By tweaking how the item suggestion is introduced the designer can push me towards likewise preferring the item.

Presentation influences how clients feel:

Another model where interfaces matter in Gmail's Smart Reply work. When forming an email, Smart Reply offers a choice of potential answers to browse. This gives the client a variety of choices and a sensation of power over how they create their messages. It's a compelling method of giving independence back to the client.

To assist you with moving toward how to plan human-PC interfaces for AI, I've come to search for systems to use as my aide. One of these is a show given by Apple, which I digest in this post. Four design criteria for enhancing ML interfaces are:

Multiple Options

Attributions

Confidence

Limitations

Multiple Options:

Different choices permit clients to pick between a scope of choices that an AI includes produces. Apple utilizes the case of Maps, where the directing motor gives the client a couple of courses to browse. Notwithstanding, the number of alternatives isn't the solitary thing to augment! Giving a variety of choices is significant as well. Over the long run, the application can gather measurements on what a client likes and figures out how to customize rankings.

Attributions:

Attributions clarify why an application settles on specific choices. They're my number one plan measures since they handle a squeezing need in AI — the need to make models reasonable. A few instances of attributions at play come from the Apple App Store and Netflix, where they incorporate little clarifications for why certain applications are recommended for you. These clarifications make models to a lesser extent a black box and go far towards demystifying AI applications.

There is a proviso to utilizing Attributions in an interface, be that as it may. Attributions can become dangerous when they depend on emotional models or measures that are normally considered outside the allowed boundaries. Making proposals dependent on somebody's nationality, for instance, isn't worthy by the present standards. To keep away from these traps, it's smarter to put together attributions concerning more target standards like review and perusing history.

Confidence:

Confidence identifies with how sure a model is about its outcome. It could identify with the amount of a match a book is for you on the Kindle Store, or how certain your inbox is that an email you've gotten is a commercial.

Conveying confidence levels, when done effectively, is extraordinary for setting assumptions on what a model can or can't do, which is the initial step to building trust between a client and a model.

Limitations:

Confidence shows that a model is never 100% sure about its outcomes. It can never get things right 100% of the time. Here, being forthright about what the model can and can't do can smoothen the client experience because the client is less inclined to be lost by an outcome the individual in question didn't anticipate.

Permitting an application to flop effortlessly is another method of working around the constraints of ML applications. If the output isn't the thing you were searching for, give a couple of ideas to elective inquiry terms so the client can keep searching for important substance.

Different alternatives, attributions, confidence, and limitations are approaches to plan how a model presents its outcomes to an end client. By considering the interface plan through these four focal points, we can be more forthright about the qualities and limitations of AI. We can stay away from circumstances where disappointments lead to off-kilter minutes or dissatisfaction and we can assist the client with creating trust with our application.

MANTHAN SHARMA
STUDENT

MS. LALITA LUTHRA,IT
ASSISTANT PROFESSOR

Human-Computer Interface

Human-Computer interaction is a multidisciplinary field that focuses on the relationship and mutual understanding between human and a computer which would help in creating software or a machine which would be as per the requirement of a user. The basic purpose of efficient human-computer interaction is the ability to respond, detect and interpret the user's feedback.

The use of Human-computer interaction dates back to the 1980s at that time it was used as an electronic aid that was accessible to general computers such as basic gaming units, accounting software. With the advancement over the next few decades to human-computer interaction also upgraded itself to incorporate fields such as cognitive science, computer science, and human factors engineering. In the present globalized world, it is very economically and strategically crucial for the advent of HCI designs that are easier to use and give assurance to the users. This evolution in HCI has been made possible due to two kinds of interfaces one which does not use intelligence and the interface interacts with the users(adaptive HCI) and the other one being Intelligent HCI which has its applications in speech-enabled devices.

MR. MOHIT DAYAL,CSE
Assistant Professor

PRAVEEN CHAUDHARY
Student

HCI and Deep Learning

The rise of machine learning, artificial intelligence, and deep learning is posing various new challenges for academia and industrialists. Deep learning currently changes work in many disciplines, such as computer vision, natural language processing, and brain-machine interfaces. These disciplines went from handcrafted algorithms to data-driven approaches for building novel systems. Inexpensive iterative processes, machine learning models are trained and fine-tuned, which is possible only because evaluation is very cheap. In contrast to HCI, such models typically do not follow human-centered approaches, as the developed solution can be evaluated using simple metrics.HCI requires users to determine the quality of a solution, which turns out to be expensive, as this typically means conducting a user study. When using machine learning, improving a solution requires training a new model, as data-driven models cannot be changed the way that handcrafted ones can. Over recent years, we used deep learning to develop a large number of prototypes. Deep learning algorithms learn features directly from data. They do not require domain knowledge about specific sensors yet are still more accurate when enough data is available. Enough data, however, often means truly large amounts of data, which for HCI often means truly large user studies. In addition, deep learning produces black-box models that can hardly be understood by developers. As we do not understand how and why a deep learning model works, the model needs to be trained, tested, and validated through multiple iterations until it achieves the desired result. While best practices in deep learning suggest rigorous tests based on an existing dataset, we need user studies to understand many more factors that affect the user experience. How do we know how well a model performs in a realistic scenario without evaluating it with use cases? How do we know how users adapt to the model without testing it with potential users? The combination of HCI and Deep learning will be the step towards building and evaluating interactive systems.

MS. SAIJAL GUPTA,IT
ASSISTANT PROFESSOR

TAKSHI SINGH
STUDENT

Supporting Self-Regulated Learning in Online Learning Environments and MOOCs

Massive Open Online Courses (MOOCs) allow learning to take place anytime and anywhere with little external monitoring by teachers. Characteristically, highly diverse groups of learners enrolled in MOOCs are required to make decisions related to their own learning activities to achieve academic success. Therefore, it is considered important to support self-regulated learning (SRL) strategies and adapt to relevant human factors (e.g., gender, cognitive abilities, prior knowledge). SRL supports have been widely investigated in traditional classroom settings, but little is known about how SRL can be supported in MOOCs. Very few experimental studies have been conducted in MOOCs at present. To fill this gap, this article presents a systematic review of studies on approaches to support SRL in multiple types of online learning environments and how they address human factors. Future studies can use learning analytics to understand learners at a fine-grained level to provide the support that best fits individual learners. The objective of this article is twofold: (a) to inform researchers, designers, and teachers about the state of the art of SRL support in online learning environments and MOOCs; (b) to provide suggestions for adaptive self-regulated learning support.

Virtual spaces for learning are becoming increasingly prominent in both the business and education spaces. Massive Open Online Courses (MOOCs) have created more accessible educational opportunities for the masses. However, the discrepancy between enrollment and completion rates in MOOCs suggests that learning online presents unique challenges, and learners may require some form of additional support to become successful. Therefore, providing SRL support to learners is likely to lead to greater online academic success.

However, one of the assumptions of the SRL model by Zimmerman (1989, 1990) is the influence of biological, developmental, contextual, and individual constraints on learners' ability to regulate their motivation, cognition, and behavior. In MOOCs, Hood, Littlejohn, and Milligan (2015) found that learners' SRL is related to their motivation and working experience.

In recent years, there has been a growing number of studies examining SRL supports in online environments. Taking into account the role of SRL in online academic success and the influence of human factors, this systematic review aims to report. Since MOOCs are fairly recent in the field of online education, research in this area has focused mainly on challenges and trends.

MS. ANJANI GUPTA
ASSISTANT PROFESSOR

SARTHAK RASTOGI
STUDENT

Human Computer Interaction

The interaction between users and computers is achieved via an interface. Information Processing and Retrieval from memory are referred to as cognition. There are 3 types of memories namely: Sensory memory, Short Term memory RAM, and Long Term memory ROM. Short-term memory requires attention while long-term memory requires rehearsal. Patterns make it easy for humans to recall information. A computer system does interaction via sound, haptic, bio-sensing, paper as output (print) and input (scan), memory - RAM & permanent media, capacity & access, the processing speed of processing, networks. Some improved interactions are Qwerty keyboard, PDAs, laptops, touchpads, windows screens, etc. Interaction Paradigms that we have currently include- Batch Processing, Timesharing, Networking, D Graphical display, Microprocessor, WWW, Grid/Clouds Computing, Human-Robot Interaction, Tablet/Table Top Computing. The types of user interfaces, common interaction styles include Command-line interface, Menus, Natural language, Question/answer and query dialogue, Form-fills and spreadsheets, WIMP, Point and click, Three-dimensional interfaces, etc. These days Natural language Processing is booming in speech recognition or typed natural language. Problems are vague, ambiguous, and hard. Solutions are one should try to understand a subset and pick on keywords. In Query interfaces, there are Question/answer interfaces via Query languages e.g. SQL is used to retrieve information from the database and requires an understanding of database structure and language syntax, hence requires some expertise. Form-fills also lend a good interface and are used primarily for data entry or data retrieval. A screen-like paper form. Data put in a relevant place requires a good design and obvious correction facilities. In WIMP Interface, it has Windows, Icons, Menus and Pointers or windows, icons, mice, and pull-down menus. Three dimension interfaces include virtual reality, ordinary window systems, highlighting visual affordance, indiscriminate use, etc. Also in the 3D workspaces, it is used for extra virtual space, light and occlusion give depth and distance effects, etc.

MS. KAJAL KAUL,CSE
ASSISTANT PROFESSOR

SUMANT BANSAL
STUDENT

OUR STUDENTS AS OUR ENTREPRENEURS

PRO GARTEN

We, at Pro Garten believe that our mental health and professional satisfaction would improve if we pursue a career in accordance to our potential, ability and personality. We want to make sure that the school going generation gets deep insights into their capabilities.

FOUNDED BY:

ANKIT AGARWAL
(STUDENT)

Fitness Mantra- Equipment, Home Workouts & Yoga

Perfect personal trainer app for starting your bodybuilding journey or taking your fitness to the next level! Numerous free workout plans, workout programs, and detailed video explanations of video workouts so you can perfectly complete your gym & home workouts as per your program and schedule.

Fitness Mantra secret or gentle yoga class for all fitness levels offers Stretch, Yoga Workouts, meditation and fitness plan for young woman and men. Try this hybrid yoga, a complete Beginner Yoga series & most important yoga poses for beginners.

FOUNDED BY:

Harishankar Mishra

(Student)

Morsey - Chat in Morse Code & Scan to Translate

Morse Code played a very important role during the 20th century and is believed to be very effective & essential in future.

The idea behind the app was to provide a fun and interactive way to help users to experience the magnificence of Morse Code.

This app can also be seen as a fun way to learn morse code.

Morsey is designed to bring change in the lives of common people.

Significance of Morse Code:-

Morse Code is majorly used by Space Agencies to send signals in the space to search for the extraterrestrial life or aliens.

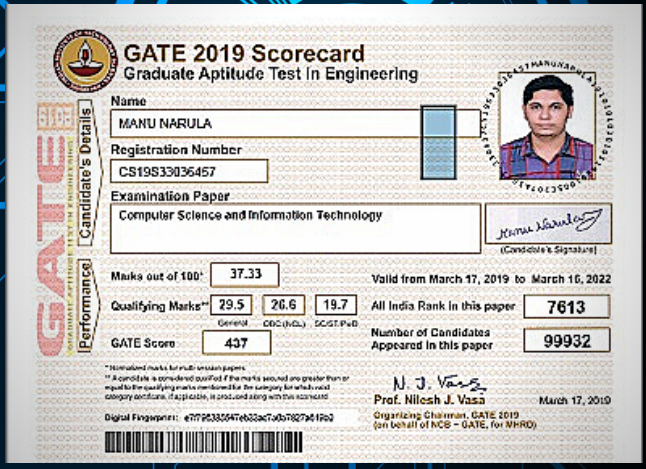
FOUNDED BY:

Anshul Vats
(Student)

STUDENTS PURSUING HIGHER STUDIES

Manu Narula

Qualified GATE 2019 with a score of 437 and secured 7,613 rank



GATE 2019 Scorecard
Graduate Aptitude Test in Engineering

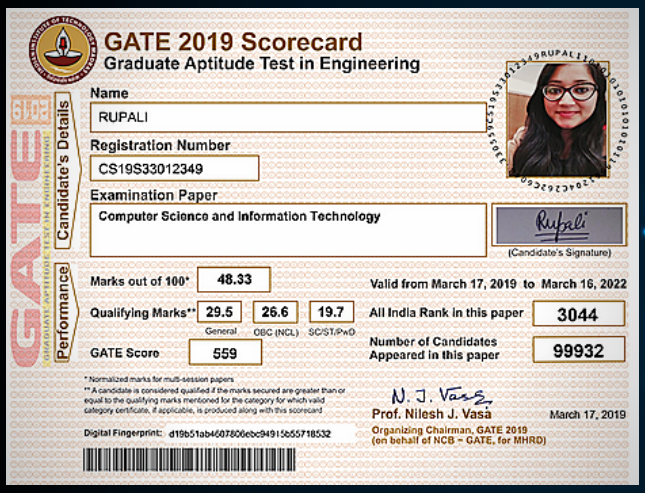
Name: MANU NARULA
Registration Number: CS19S33036457
Examination Paper: Computer Science and Information Technology

Marks out of 100*: 37.33
Qualifying Marks**: General 29.5 | OBC (NCL) 26.6 | SC/ST/PwD 19.7
GATE Score: 437
Valid from March 17, 2019 to March 16, 2022
All India Rank in this paper: 7613
Number of Candidates Appeared in this paper: 99932

Prof. Nilesh J. Vasa
Organizing Chairman, GATE 2019
(on behalf of NCB – GATE, for MHRD)
March 17, 2019

Rupali Monga

Qualified GATE 2019 with a score of 559 and secured 3,044 rank



GATE 2019 Scorecard
Graduate Aptitude Test in Engineering

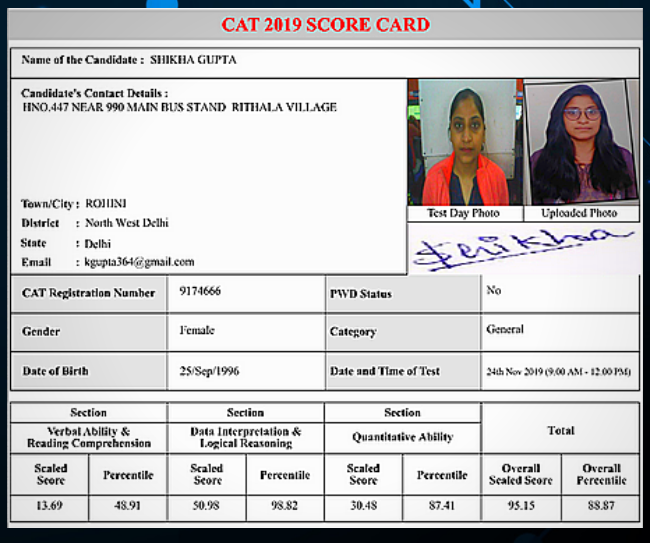
Name: RUPALI
Registration Number: CS19S33012349
Examination Paper: Computer Science and Information Technology

Marks out of 100*: 48.33
Qualifying Marks**: General 29.5 | OBC (NCL) 26.6 | SC/ST/PwD 19.7
GATE Score: 559
Valid from March 17, 2019 to March 16, 2022
All India Rank in this paper: 3044
Number of Candidates Appeared in this paper: 99932

Prof. Nilesh J. Vasa
Organizing Chairman, GATE 2019
(on behalf of NCB – GATE, for MHRD)
March 17, 2019

Shikha Gupta

Qualified CAT 2019 with a score of 95.15 and secured 88.87 percentile



CAT 2019 SCORE CARD

Name of the Candidate : SHIKHA GUPTA

Candidate's Contact Details :
HNO.447 NEAR 990 MAIN BUS STAND RITHALA VILLAGE

Town/City : ROHINI
District : North West Delhi
State : Delhi
Email : kgupta364@gmail.com

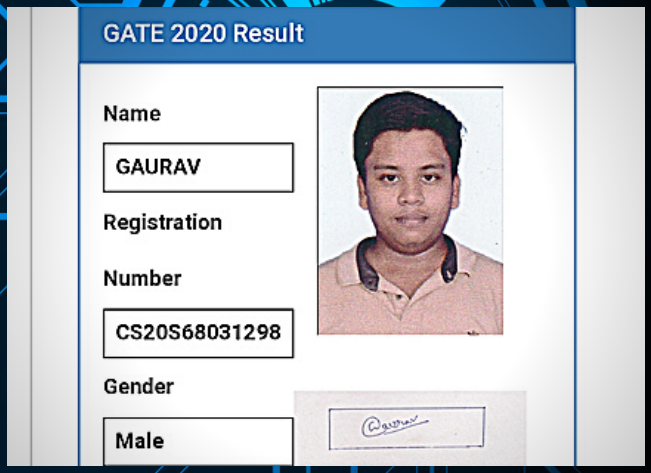
Test Day Photo | Uploaded Photo

CAT Registration Number	9174666	PWD Status	No
Gender	Female	Category	General
Date of Birth	25/Sep/1996	Date and Time of Test	24th Nov 2019 (9:00 AM - 12:00 PM)

Section: Verbal Ability & Reading Comprehension		Section: Data Interpretation & Logical Reasoning		Section: Quantitative Ability		Total	
Scaled Score	Percentile	Scaled Score	Percentile	Scaled Score	Percentile	Overall Scaled Score	Overall Percentile
13.69	48.91	50.98	98.82	30.48	87.41	95.15	88.87

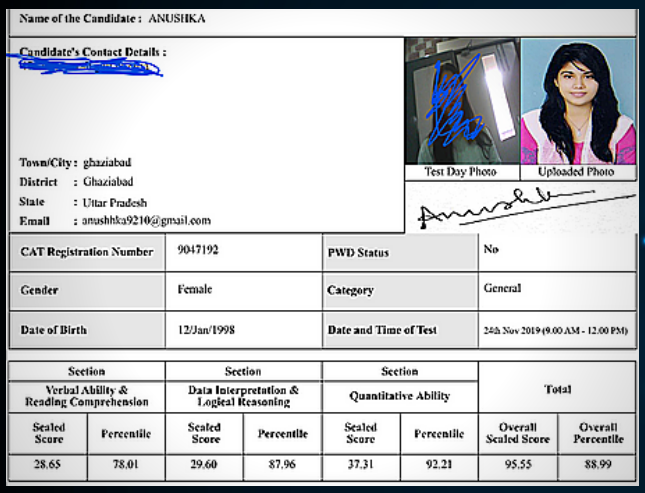
Gaurav Sinha

Qualified GATE 2020 with a score of 364 and secured 12,320 rank



Anushka Gupta

Qualified CAT 2019 with a score of 95.5 and secured 88.99 percentile



Name of the Candidate : ANUSHKA

Candidate's Contact Details :

Town/City : ghaziabad
District : Ghaziabad
State : Uttar Pradesh
Email : anushtka9210@gmail.com

Test Day Photo | Uploaded Photo

CAT Registration Number	9047192	PWD Status	No
Gender	Female	Category	General
Date of Birth	12/Jan/1998	Date and Time of Test	24th Nov 2019 (9.00 AM - 12.00 PM)

Section		Section		Section		Total	
Verbal Ability & Reading Comprehension		Data Interpretation & Logical Reasoning		Quantitative Ability			
Scaled Score	Percentile	Scaled Score	Percentile	Scaled Score	Percentile	Overall Scaled Score	Overall Percentile
28.65	78.01	29.60	87.96	37.31	92.21	95.55	88.99

Pragati Dhoundiyal

Qualified ILETS 2020 with a score of 7 and secured C1 CEFR Level

HIGHER ACHIEVERS

HIGHER ACHIEVERS

The Department of information technology has always been particular about industrial placements. Our students are placed in various sectors of IT. It is a matter of pride for us to know that the students of the IT department, who will be conferred with the degrees, will be well-rounded professionals. They are indeed ready to change the world with the knowledge that they have acquired together with exploring innovative ideas and solutions. ADGITM, IT department students have shown enormous potential for developing innovative technologies and solutions.

This year **Kush Aggarwal**, a student of our department is gaining the highest package of **19LPA** at the position of Cloud Support Associate in Amazon. Also, many students have been placed in **ADOBE, AMAZON INFOSYS, DAFFODIL, NEWGEN.** and **TCS**. A student, **Piyush Jain** is going for a Master of Science in Computer Science from the University of North Carolina at Charlotte. The students are well prepared for the future in the industry as well as in research.

Piyush Jain

MS in Computer Science, the University of North Carolina at Charlotte

"My overall experience at Dr ADGITM so far has been astonishing. The College course structure is even better than what I have heard from others. I think Dr ADGITM did terrific, especially with everything that was happening from the past year. Seeing the professors working hand in hand during the pandemic was astounding as well; everyone tried their best to bring the most out of the situation. The faculty at Dr ADGITM is considerate and supportive; they help you at every stage. I made new friends, explored new passions, and learned a lot, and I don't think it could get any better."

HIGHEST PLACED

Kush Aggarwal

19 LPA

Cloud Support Associate,
Amazon Web Services

College has inspired me to think differently. All the time that I have spent in college have taught me something whether it is related to education or life, these are the moments and experiences that I will treasure forever. It's like no other time in your life. Everybody in the college has always been supportive and helpful in each step which has in turn helped me to grab such a great opportunity of working as an engineer with Amazon in the beginning of my professional career itself.

HIGHEST PLACED

Aarushi Atrey

8 LPA

Technical support Consultant,
Adobe Systems

“Dr. Akhilesh Das Gupta Institute of Technology & Management has taught me a lot, and not just in the way of academics. I developed an interest in Machine Learning all because of the training and support provided by the college. Academics is not the only thing the college has taught me. It taught me industry-relevant technologies, etiquettes of communications, and logical thinking, which is all a big part of any engineering graduate.”

HIGHEST PLACED

Durga Puri

8 LPA

Software Developer,
Newgen Software

“My college allowed me to explore and grow in my technical skills. Further, it provided me extraordinary platforms to showcase my skills and it helped me in enhancing my skills. My college helped me in my overall personality development.”

STUDENT'S PUBLICATIONS

Akanksha Shukla, Ishani Garkoti, Amisha Mittal, Binit Choudhary

PAPER TITLE: "Social Distancing Detection Using Open Cv And Yolo Object Detector"

JOURNAL: "International Journal For Modern Trends In Science And Technology"

Akshit Kansal, Nipun Arora, Tushar Maurya, Vinit Kr. Agarwal, Bijendra Tyagi

PAPER TITLE: "Detection Of Plant Diseases Using Resnet50 V2"

JOURNAL: "International Journal Of Engineering Development And Research (ISSN: 2321-9939)"

Mayank Upadhyay, Gaurav Singh, Umang Sharma, Shahrukh Hussain

PAPER TITLE: "Recommendation System Using Machine Learning Algorithms"

JOURNAL: "International Journal Of Scientific Research In Engineering And Management (Ijsrem)"

Sherry Jain, Vishakha Tyagi, Tanvi Jain, Chetan Bhargava

PAPER TITLE: "Human Activity Model Analyser"

JOURNAL: "International Journal Of Advances In Engineering And Management (Ijaem)"

Shrikant Varshney, Prabhat Singh, Anushka, Nitin Goyal

PAPER TITLE: "Prediction Of Parkinson's Disease Using Catboost, Xgboost And Random Forest Algorithms"

JOURNAL: "International Research Journal Of Modernization In Engineering Technology And Science"

Sachin Tripathi, Priyanka Verma, Lakshay Malhotra, Priya Verma

PAPER TITLE: "Sign Language Recognition Application-Sanket"

JOURNAL: "International Research Journal Of Modernization In Engineering Technology And Science"

Avi Gupta, Piyush Jain, NishchintGauniyal, Nitya Gupta

PAPER TITLE: "Approach On Be Safe Android Application"

JOURNAL: "International Research Journal Of Modernization In Engineering Technology And Science"

Priyank Rawat, Chandan Singh, Ajay Kumar, Ayush Sharma

PAPER TITLE: "Vehicle Detection Using Artificial Intelligence For Traffic Surveillance"

JOURNAL: "International Research Journal Of Modernization In Engineering Technology And Science"

Ketan Rana,RahulGoyal,Ashish Goyal, Sanjeev

PAPER TITLE: "Driver Drowsiness And Fatigue Detection Using Python"

JOURNAL: "International Research Journal Of Modernization In Engineering Technology And Science"

STUDENT'S ACHIEVEMENTS

VAISHNAVI ROHATGI

Published **Research Paper** at IEEE, 10th Nov, 2020 "**A Detailed Survey for Detection and Mitigation Techniques against ARP Spoofing**"

IEEE
IEEE XPLORE ISBN: 978-1-7281-5464-0

ISMAC 2020

SCAD INSTITUTE OF TECHNOLOGY
Approved By AICTE, Affiliated to Anna University

CERTIFICATE OF PRESENTATION

This is to certify that

Vaishnavi Rohatgi

has successfully presented a paper entitled

A Detailed Survey for Detection and Mitigation Techniques Against ARP Spoofing

in the

4th International Conference on I-SMAC (IOT IN SOCIAL, MOBILE, ANALYTICS AND CLOUD)

organized by SCAD Institute of Technology at Palladam, India on 07-09, October 2020.

SESSION CHAIR

Dr. V. Sudha
CONFERENCE CHAIR

Dr. N. Maheshkumar
PRINCIPAL

Sushant Patilal

Participated in **Cicada 3001: Reinvented**, **National Level Online Hackathon** organized by **MSTC DA-IITC** and **IEEE MTT-S DAIICT**

Akshit Kansal

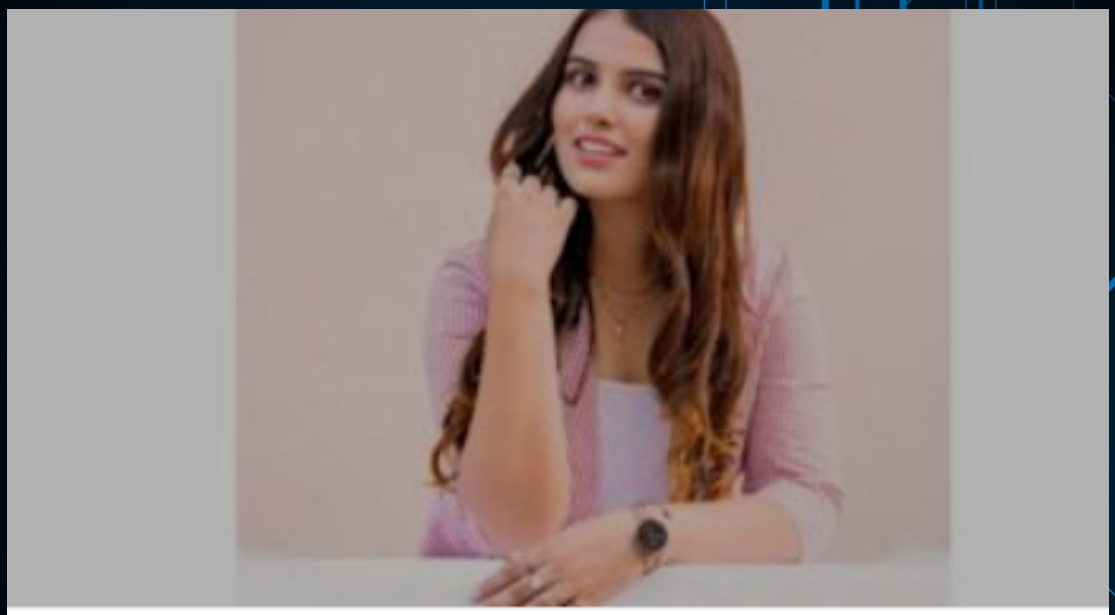
Successfully completed **Requirements of Azure Fundamentals** on 25th May 2021, **Microsoft Certified**

Aastha Jain

Appreciated as a **Guest Speaker** of **SIG** on **Cyber Security**, organised by **IEEE CS ADGITM** **Certified Ethical Hacker** on **8th April, 2021,** recognized by **EC-Council**

Naiya Sehgal

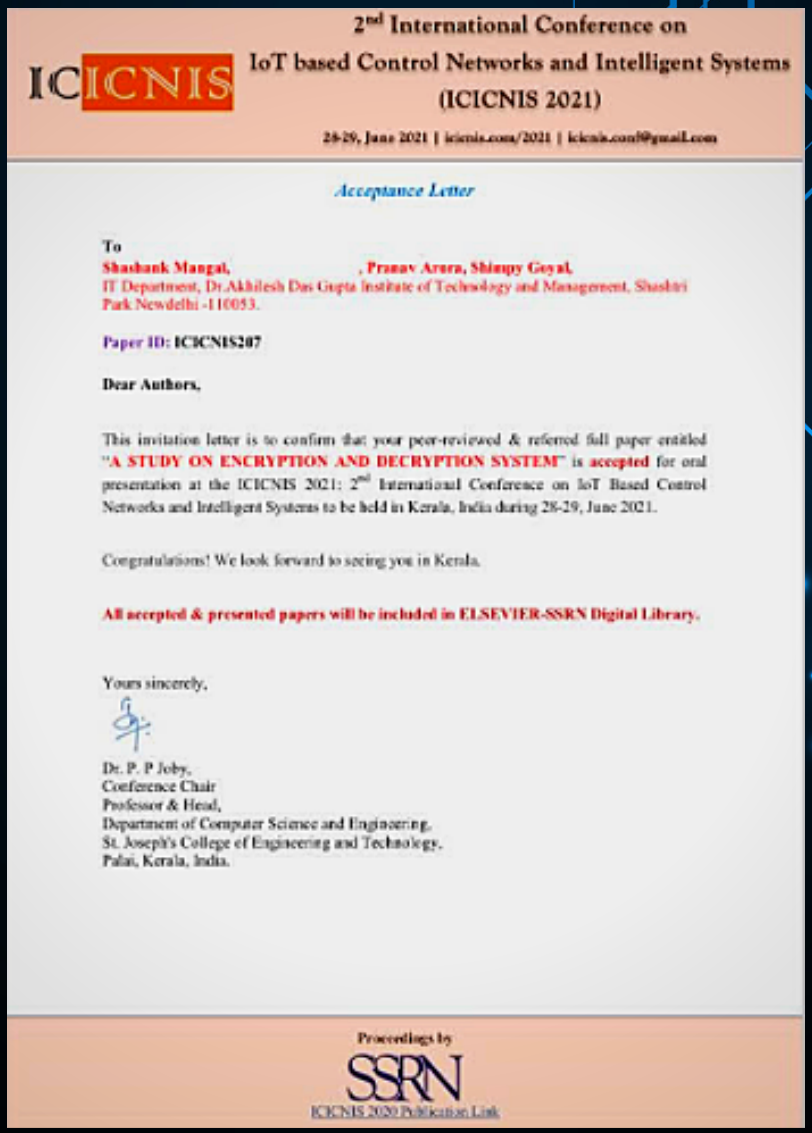
Received the **Business Excellence Award 2020** for **Influencer of the Year** by **Red Elixir Entertainment Pvt Ltd.**



All about Blogging by Naiya Sehgal, a passionate content creator from Delhi. - Startup India Magazine | DailyHunt

Pranav Arora & Shashank Mangal

Presented **Review Paper** at **IoT based Control Networks and Intelligent Systems ICICNIS** on 28th June, 2021



2nd International Conference on
IoT based Control Networks and Intelligent Systems
(ICICNIS 2021)

28-29, June 2021 | icicnis.com/2021 | icicnis.conf@gmail.com

Acceptance Letter

To
Shashank Mangal, , Pranav Arora, Shivpy Goyal,
IT Department, Dr.Akhilesh Das Gupta Institute of Technology and Management, Shashtri Park Newdelhi -110053.

Paper ID: ICICNIS207

Dear Authors,

This invitation letter is to confirm that your peer-reviewed & refereed full paper entitled "A STUDY ON ENCRYPTION AND DECRYPTION SYSTEM" is accepted for oral presentation at the ICICNIS 2021: 2nd International Conference on IoT Based Control Networks and Intelligent Systems to be held in Kerala, India during 28-29, June 2021.

Congratulations! We look forward to seeing you in Kerala.

All accepted & presented papers will be included in ELSEVIER-SSRN Digital Library.

Yours sincerely,

Dr. P. P Joby,
Conference Chair
Professor & Head,
Department of Computer Science and Engineering,
St. Joseph's College of Engineering and Technology,
Palai, Kerala, India.

Proceedings by
SSRN
ICICNIS 2020 Publication Link

Janit Chawla

Completed **30 days of Google Cloud Program**, Participated in the D**evFest** organized by **GDG**, Participated in **Google Cloud Community Days** organized by **GDG Cloud communities**

ALUMNI SPEAK

Bhaskar Singh

Quality Analyst,

Lenergizer IT Services

Life in ADGITM (formerly NIEC) was nothing less than a roller coaster ride, full of ups and downs one can imagine. But throughout the four years journey I have learned a lot.

It has provided me with some great opportunities which helped me to improve myself in every aspect as a student, as a senior, as a friend, as a sportsperson, as a leader, and most importantly as a professional. Being a Volunteer, Coordinator, Society Head, President, and sportsperson I learned so many skills which helped me in developing my positive and healthy attitude for my future goals. Working in these roles helped me a lot as a Defence Aspiriant.

It was a great time we spent in ADGITM College. ADGITM has very wonderful faculty and they are very cooperative and the campus environment is very positive. The training and placement department continuously assists with the training and placement of the students. ADGITM has made the best efforts to provide all the facilities for the students like faculties, events, sports, etc. The days which have been spent in ADGITM were the golden days of my life and will remember them for the rest of my life.

Radhika Bhatia

Graduate Trainee,

Bravura Solutions

Just like every other school kid, entering college and exploring the greatest part of my life had always been a much awaited experience.

The freedom Adgitm gives along with the right balance of discipline is definitely something that is helping me in my corporate life. This college is all about finding our true capabilities.

It didn't take much time to create a friend like yet a respectful bond with all the great teachers who taught me, not only the curriculum but definitely what life holds after those 4 years.

At the end of my journey here, I was a totally different person. It's all because of the opportunities and the achievements, successes, and the learnings I got from every single person I met in my college life. Something to always remember and cherish.

Pranjal Munjal

Cloud Engineer,

Hanu Software Solutions

College life is completely different form school life. It gives us more exposure to different professional situations which makes us more confident and independent.

With all the new faces college prepares us to become more social and to form opinions of our own. Dr. Akhilesh Das Gupta Institute of Technology and Management has always given me the opportunities to learn in any area of field which interested me apart from the field that I was studying in. The faculty were always available to mentor and provide guidance whenever I was in need. I will always cherish the opportunities that were given to me, apart from the academic curriculum. This helped me to learn new skills and polish the skills that I already had. For me, college experience is not only the studies but also the professional engagements, interactions and ventures that we create during the 4 years of college life.

To all the faculty, mentor, and peers that I have made connections with at ADGITM, molding my college experience to be so fruitful and fun, to them I humbly say THANK YOU.

FACULTY SECTION

FACULTY FDPs

Ms. Charul Arora

Done Faculty Devlopment Program on

"**Internet of Things (IoT)**"

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION

Nelson Mandela Marg, Vasant Kunj, New Delhi – 110 070

AICTE Training And Learning (ATAL) Academy

Certificate

This is certified that Charul Dewan, Assistant Professor of ADGITM participated & completed successfully AICTE Training And Learning (ATAL) Academy Online FDP on "Internet of Things (IoT)" from 2021-1-4 to 2021-1-8 at JAWAHARLAL NEHRU NATIONAL COLLEGE OF ENGINEERING.

MR. GAURAV SHARMA

Participated in "**International webinar on "Insight on Blockchain Technology and its Applications**"

PURDUE UNIVERSITY NORTHWEST

كلية مزون
Mazoon College
www.mazcol.edu.om

MISSOURI S&T

Participation Certificate

This is to certify that

Mr. Gourav Sharma

participated in

International webinar on "Insight on Blockchain Technology and its Applications"

organized by

Computing and Informatics Department, Mazoon College

held on 04th May 2021. We appreciate your participation.

DEPARTMENT OF COMPUTING AND INFORMATICS
MAZOON COLLEGE
MUSCAT, OMAN

Dr. Mohammad Nasar
Head - Computing and Informatics Department

Dr. Anica Dragovic
Interim Dean of Mazoon College

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FACULTY PUBLICATIONS

Dr. Prashant Singh

Paper Title:

- State Space Modeling of Earned Value Method for Iterative Enhancement Based Traditional Software Projects Tracking

Authors:

- Manoj Kumar Tyagi, Ajay Sikanda, Dheerendra Kumar Tyagi, Durgesh Kumar, Prashant Singh, Srinivasan Munisamy, L. S. S. Reddy

Journal:

- International Advanced Computing Conference, Communications in Computer and Information Science

Mr. Dhyanendra Jain

PAPER TITLE:
- Zero Human Contact Voting System

AUTHORS:
- Dhyanendra Jain, Ashish Goel, Kunal Gupta, Shivam Adlakha, Shubham Gupta

JOURNAL:
- International Journal of Research in Engineering and Science (IJRES) ISSN

Mr. Jogendra Kumar

PAPER TITLE:
- Contactless Temperature Reader and Sanitiser Dispenser (CTRSD)

AUTHORS:
- Jogendra Kumar, Swati, Trishita, Chaitanya Sagar, Naman Jindal

JOURNAL:
- International Journal of Advances in Engineering and Management (IJAEM)

Ms. Monica Batra

PAPER TITLE:

- Image Captioning Based on Deep Neural Networks
- 2-Dimensional Game Development Using Unity Game Engine

AUTHORS:

- Akash Garg, Arpit Gupta, Sreshth Khandelwal, Monica
- Aayush Agarwala, Ishan Junejaa, Vatsal Khandelwal ,Monica Batra

JOURNAL:

- International Journal of Research in Engineering and Science (IJRES) ISSN
- International Journal of Research Publication and Reviews

Ms. Gunjan Chug

PAPER TITLE:

- Potato Leaf Disease Detection using Inception V3
- Driver Drowsiness Detection system
- LangMine Media Player Application
- Covid-19: Visualizations and Forecasting

AUTHORS:

- Gunjan Chug, Aman Sharma, Prakash Chaudhary, Rushali Khanna
- Akshit Bansal, Kartik Aggarwal, Girish, Naman Kumar, Gunjan Chug
- Shubham Beerh, Taru Jain, Ritik Gupta, GunjanChug
- Aastha Gupta, Mahima Verma, Sakshi Bisht, Smriti Singh, Gunjan Chug

JOURNAL:

- International Research Journal of Engineering and Technology (IRJET)
- International Journal For Technological Research In Engineering
- International Journal For Technological Research In Engineering
- International Research Journal of Engineering and Technology (IRJET)

Ms. Aashita Chhabra

PAPER TITLE:

- Real Time Information and Communication Center based on WebRTC
- Real time drowsiness detection and Alert system Using CNN
- Decentralized Supply Chain
- Fake news detection using naïve baye's and TF-IDF vectorize

AUTHORS:

- Himanshu Bhardwaj, Adarsh Lunthi, Hitesh Bhat, Karan Singh Rawat, Aashita Chabbra
- Purnima Gupta, Sheersh Kaushik Durga Puri, Aashita Chhabra, Sidharth Dhamija
- Kush Aggarwal, Devesh Khandelwal, Lakshay Sangar, Aashita Chhabra,
- Shubham Kr Singh, Rajat Gupta, Soumya Choudhary, Aashita Chhabra

JOURNAL:

- International Research Journal of Engineering and Technology , IRJET
- International Journal of Scientific Research in Engineering and Management, IJSREM
- International Journal for Technological Research in Engineering ,IJEAST
- International Research Journal of Modernization in Engineering Technology and Science ,IRJMETS

Ms. Anjani Gupta

PAPER TITLE:

- Vocular: Speech Emotion Recognition

AUTHORS:

- Akshita Jain, Vikas, Lakshay Singhal, Tanishqa, Anjani Gupta

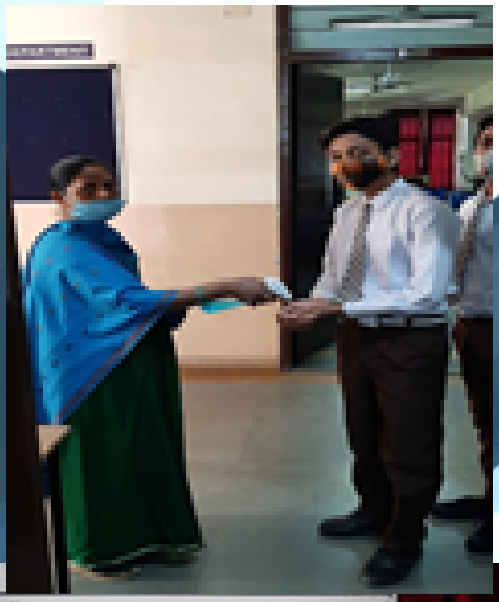
JOURNAL:

- International Journal for Technological Research in Engineering ,IJEAST

TECHNICAL EVENTS SECTION

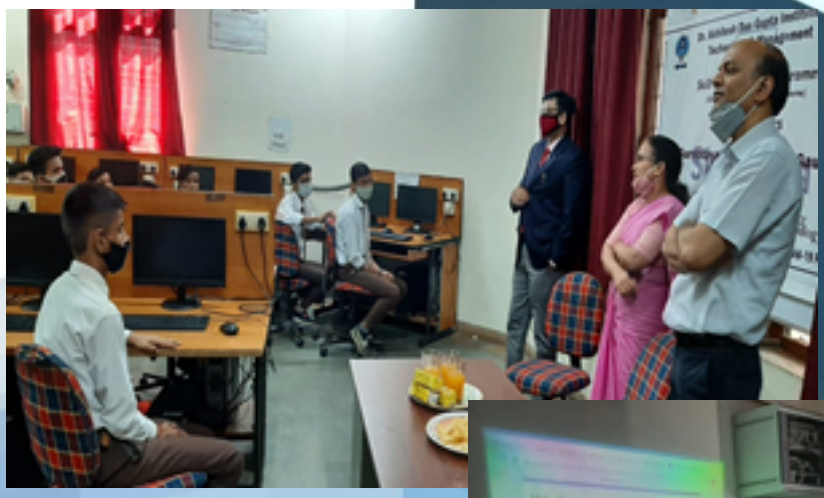
SKILL DEVELOPMENT PROGRAMME
(Under the Skill India Mission)
on
G SUITE BASICS
for the students of
GOVT. SARVODAYA BAL VIDYALAYA, GAUTAMPURI

Dated: 02nd March 2021
Venue: Lab 1, Department of Information Technology, Dr. Akhilesh Das Gupta Institute of Technology & Management, Delhi.



Details of the Event:

- Students of Govt. SarvodayaBalVidyalaya, GautamPuri came to ADGITM college to attend the workshop on G Suite Basics.
- It is as per the scheme (Skill India Mission) under which the NSQF project is being run and the school has arranged an Industrial Visit for 10th class students.
- 25 students participated in the event and this was organized by the IT department.
- The topic of the workshop was “G Suite Basics”. The session was taken by Dr. Prashant Singh (HOD, IT) and Ms. Saijal Gupta(Asst. Prof., IT).
- Ms. Saijal Gupta taught the students about Google forms.



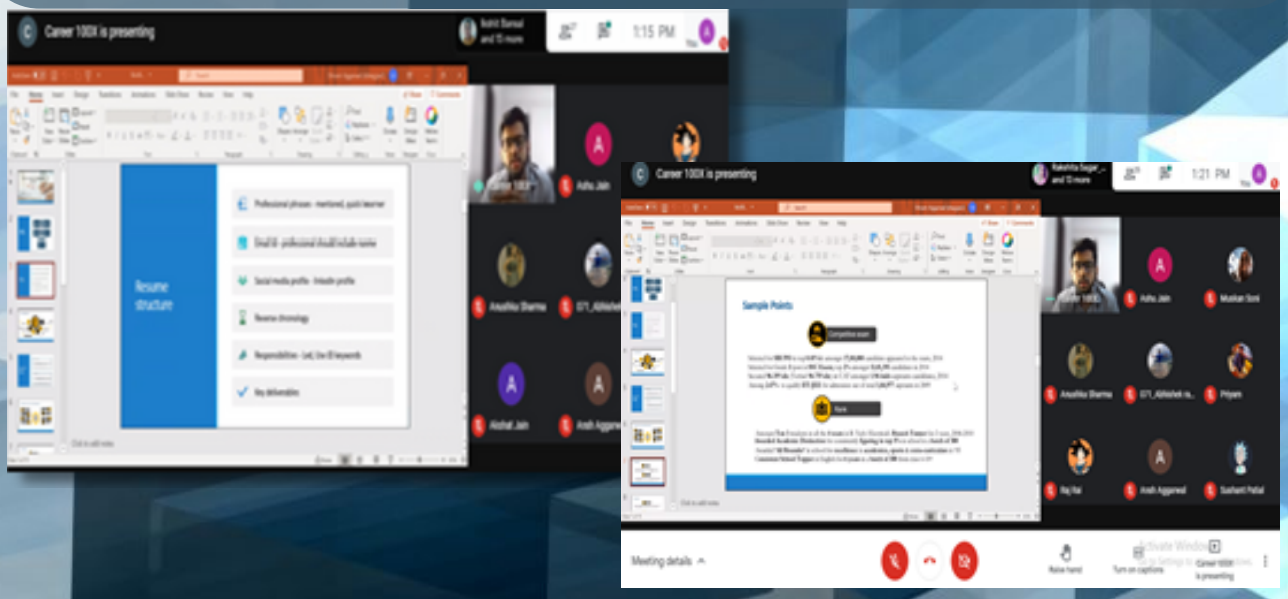
EXPERT LECTURE ON TIPS TO BUILD A PERFECT RESUME

Dated: 16th March 2021
Timings: 01:00 pm – 02:00 pm
Venue: Online Mode
Delegate: Mr. Shivam Aggarwal, Project Manager at Cisco
Objective: To impart tips to build a perfect resume

Highlights of the Seminar:
The following points were discussed by Mr. Shivam Aggarwal:

- Tips for creating an impactful resume
- General guidelines
- Use of power verbs
- Sample points and Quantification

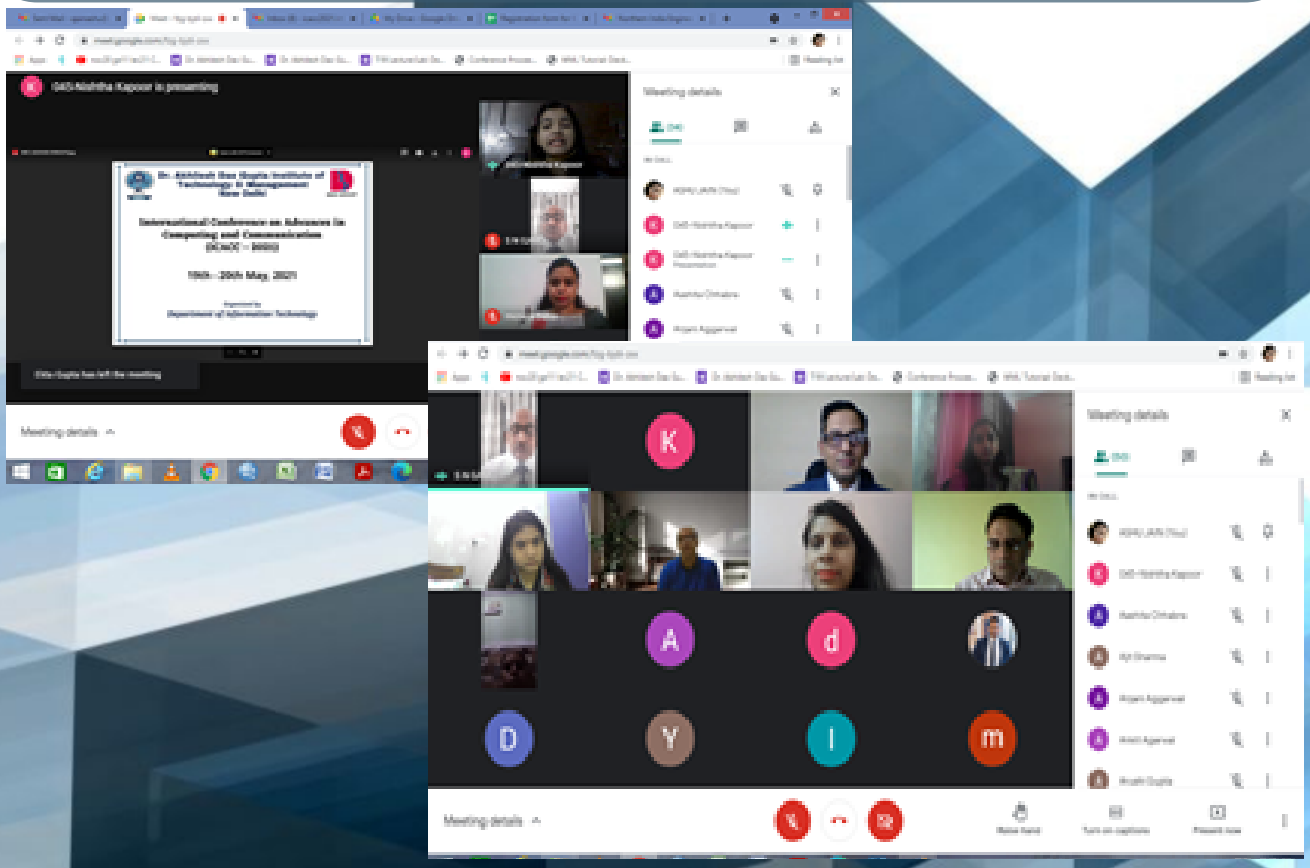
Beneficiaries:
Third and final-year students of the IT department.



INTERNATIONAL CONFERENCE ON ADVANCES IN COMPUTING AND COMMUNICATION (ICACC – 2021)

Dated: 19th – 20th May, 2021
Venue: Google Meet
Organizers: Department of Information Technology, ADGITM, New Delhi
Delegates:

- Prof. David Brown, NTU, United Kingdom as Chief Guest.
- Dr. Om Prakash Kaiwartya, NTU, United Kingdom as Keynote Speaker.
- Dr. Manju Khari, JNU, Delhi as Session Chair.



KEYNOTE SPEAKERS OF ICACC-2021

Professor David Brown,
NOTTINGHAM TRENT UNIVERSITY, UK

Professor Brown is Director of the Computing and Informatics Research Centre and Research Group Leader for the Interactive Systems Research Group.

Research areas

Professor Brown is the leader of the Interactive Systems Research Group (ISRG)
and Director of the Computing and Informatics Research Centre (CIRC)
Areas of research interest include:

Accessibility - for students with learning, physical and sensory impairments (DiversAsia)

Virtual Reality - in the rehabilitation of people with intellectual disabilities

Multimodal Affect Recognition Learning Systems - to develop personalised learning pathways (H2020 MaTHiSiS, Pathway and AI-TOP)

Social Robotics - for use in the education of students with learning disabilities and autism (EDUROB)

Accessible Visual Programming Toolkits - to promote engagement and collaborative behaviours (H2020 No One Left Behind)

Serious Games - for the development of physical and cognitive skills (Real Life, RISE)

Co-design and positive mental wellbeing (EPSRC An Internet of Soft Things)

Opportunities to carry out postgraduate research towards an MPhil/PhD exist in all the areas identified above and in associated interdisciplinary areas. Further information may be obtained from the NTU Graduate School.

KEYNOTE SPEAKERS OF ICACC-2021

Dr. Omprakash Kaiwartya,
NOTTINGHAM TRENT UNIVERSITY, UK

Dr. Omprakash Kaiwartya is a Senior Lecturer and Course Leader for MSc Engineering (Cybernetics & Communication), and MSc Engineering (Electronics). He is teaching Embedded Systems (MSc), Internet Technology (BSc), Group Design Projects (MSc) modules in this academic year 2019-20.

Prior to joining NTU, Dr. Omprakash was a Research Associate (equivalent to Senior Lecturer) at the Northumbria University, Newcastle, UK, in 2017, a Postdoctoral Research Fellow (equivalent to Lecturer) at the Universiti Teknologi Malaysia, Malaysia, in 2015-16 and a PhD Research Scholar at the Jawaharlal Nehru University, New Delhi, India, in 2010-15.

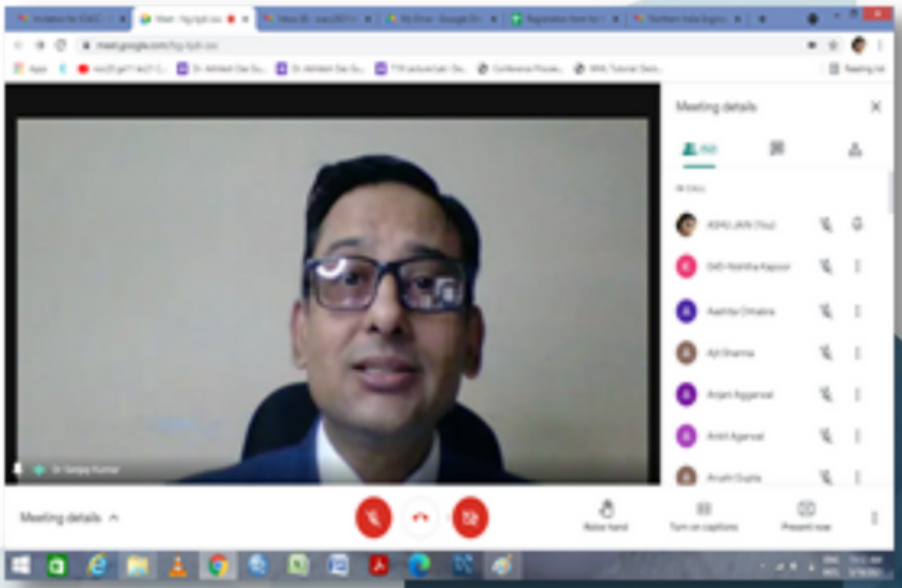
Research areas

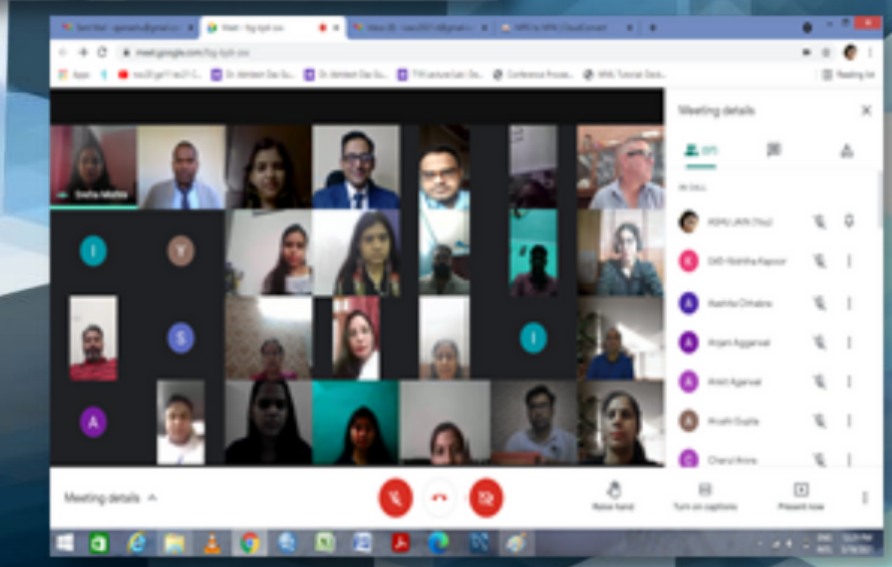
Dr. Omprakash Kaiwartya's current research interest focuses on the following areas in the Connected Environment.

- **Drone enabled Networking (Drone)**
- **E-Mobility centric Electric Vehicles (EV)**
- **IoT centric Smart Services**
- **Connected Vehicles**
- **Next Generation Wireless Systems**

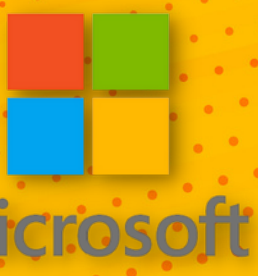
Highlights:

The department of Information Technology, Dr. Akhilesh Das Gupta Institute of Technology & Management, New Delhi, organized the International Conference on Advances in Computing and Communication (ICACC - 2021) on 19th – 20th May, 2021 in online mode. After reviewing, only best quality papers were selected. We received papers from different IT related tracks like Technology trends, Artificial Intelligence, Data Mining etc.





OUR RECRUITERS



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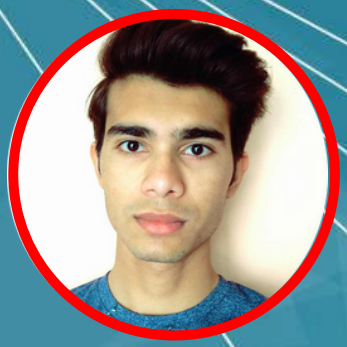

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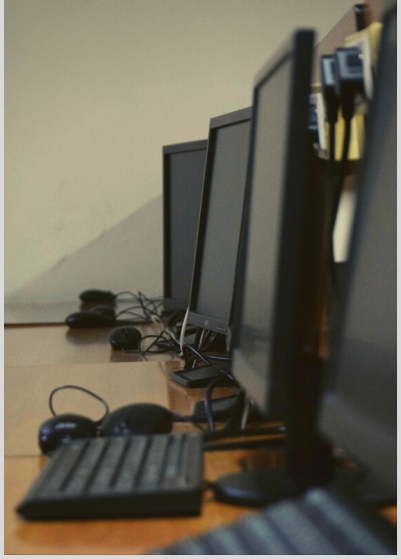



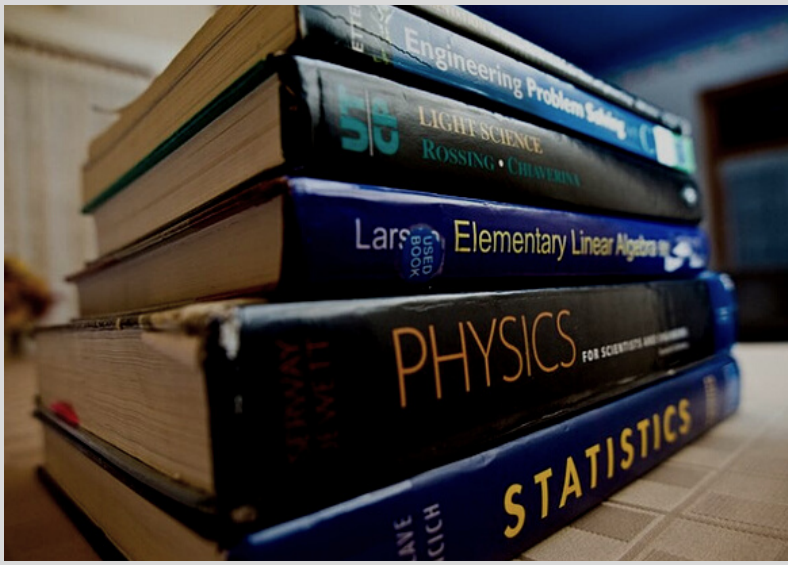
Engineering Problem Solving
LIGHT SCIENCE
ROSSING • CHIAVERINA
Lars
USED BOOK
Elementary Linear Algebra
PHYSICS
FOR SCIENTISTS AND
STATISTICS


Pixion

The IT Magazine

Dr. Akhilesh Das Gupta Institute Of Technology & Management

FC-26, Shastri Park, New Delhi - 110 053

Phone Numbers: +91(11) 49905900-99, 32526261-64,

E-mail: info@adgitmdelhi.ac.in