GL BAJAJ
Institute of Technology & Management
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All the bits in one byte

TECHNICAL
MAGAZINE

GATE 1

**SESSION
2020-2021**

TECHNISHAD

DEPARTMENT OF COMPUTER SCIENCE
& ENGINEERING

Our Inspiration

Late Shri Ganeshi Lal ji Bajaj was indeed a multifarious personality. A freedom fighter, a philanthropist and a dedicated social worker, Ganeshi Lal ji was revered for his benevolence and penchant for hard work. No matter how busy he would remain, he would always find time to not only educate the children of the underprivileged, but also provide them with food, shelter and articulate to help them come up in life."Education leads to enlightenment", he firmly believed.

We at R.K. Group have endeavored to imbibe our mentor's spirit and mission to not only grow in our respective fields of interest, but to keep aspiring, praying and working towards the cause of the youth and nation building.

Vision

To build strong teaching environment that responds to the needs of industry and challenges of the society.

Mission

M1: Developing strong mathematical & computing skill set among the students.

M2: Extending the role of computer science and engineering in diverse areas like Internet of Things (IoT), Artificial Intelligence & Machine Learning and Data Analytics.

M3: Imbibing the students with a deep understanding of professional ethics and high integrity to serve the Nation.

M4: Providing an environment to the students for their growth both as individuals and as globally competent Computer Science professional wit encouragement for innovation & start-up culture.

Chairman's Message

Scientists dream of doing great things and Technocrats shape them. Congratulations for choosing the path leading to magnificent career-from the patriarch...
GL Bajaj Institute of Technology & Management Institute has been brought into being solely for spawning the legion of farsighted professionals and astute technocrats, remaining always ahead to contribute meaningfully to the nation.
GL BAJAJ has emerged as a leading world class educational group that creates and disseminates knowledge, integrating advance technology.

Our college aim at becoming a pacesetter in developing the next generation teaching and learning methods to foster individual brilliance. We strongly believe in academic excellence, high teaching standards and discipline. At GL BAJAJ campuss, we equip our students with first -rate education and necessary practical skills as well as strong interface with the corporate world to ensure that they stand out the best in today's world.

We have carved out a distinct niche for R K Education Hub in Mathura and Greater Noida with nine colleges and one International School covering all streams. GLBITM Institute is not a mere addition of a feather in R K Education Hub's crown, but a logical extension of our experience and expertise over the years of sheer hard work and meteoric growth. I welcome and congratulate you for beginning this great journey leading to the shimmering career.

Our mission is to expand development opportunities for student and faculty. We wish you a rewarding experience at GL BAJAJ.

Dr. Ram Kishore Agarwal
Chairman

Vice Chairman's Message

"We strive, we believe and attain success"
The advent of globalization and rapid advancement in economy, enormous opportunities have been thrown open at the doors of Indians. The Indian government also realized that there is going to be big demand for well qualified and highly component professional in the nation as well as in other advanced countries of the world.

We hope earnestly in that the aspirants of business administration will find here opportunities and after graduation would be the leaders in their respective field. As a premier institution working to achieve excellence in professional education, since 2012, we are working extensively in the area of education as an affiliated institution of Dr. A. P. J. Abdul Kalam Technical University (AKTU), Lucknow. We are endeavoring to develop a talent profile among our students, having sufficient width and required depth in their area of study, with exemplary faculty members and excellent state-of-the-art facilities.

We believe in giving permanent systematic innovative teaching, making our students capable of earning their rightful place in this world with innovation, entrepreneurship, creativity, health, environment, technology, and trade. GL Bajaj Institute of Technology Management Institute is one of the established Institutions of Rajeev Memorial Academic Welfare Society, GL Bajaj was founded with a mission to promote excellence in the field of management education.

The Institute not only extends good campus and state of the art facilities to the students but we also encourage teamwork, personal initiative, and accountability among the students. At GL Bajaj, we aim at grooming professionals who can effectively manage unanticipated challenges and have an urge in them to excel. We take the responsibility of developing and nurturing the world-class skilled & dedicated managers who are competent enough to meet the global challenges, which is a need of the hour. We focus on our intellectual capital to become valued assets in the industries and diverse professional fields and achieve pinnacle of success.

With the world, becoming a global village and globalization coupled with stiff competition is making its presence felt, the need of the hour is to successfully meet such tests and challenges.

Mr. Pankaj Agarwal
Vice Chairman

Director's Message

First and foremost, congratulations on pursuing a field that is constantly evolving and has the potential to shape the world around us. As a computer science engineering student, you have the opportunity to work on cutting-edge technologies, develop innovative solutions to complex problems, and contribute to the digital transformation of our society.

However, as you embark on this journey, it's important to remember that success in this field requires dedication, hard work, and continuous learning. The field of computer science is constantly evolving, and new technologies and programming languages are emerging all the time. Therefore, it's crucial to stay updated with the latest trends and developments in the field, and to never stop learning.

As you progress through your studies, I encourage you to take advantage of the resources available to you, including your professors, your peers, and online learning platforms. Don't be afraid to ask questions and seek help when you need it, and don't be discouraged by setbacks or failures. Every mistake is an opportunity to learn and improve.

It's my pleasure to write a message for the technical magazine of CSE department. As you read the articles and analyses, I encourage you to approach them with an open mind and a critical eye. Finally, I would like to express my gratitude to our team of writers, editors, and designers, who work tirelessly to produce this magazine with the highest standards of quality and excellence. Their hard work and dedication are the driving force behind our publication's success.

Dr. Rajeev Agrawal

Director

GLBITM

Head's Message

Dear Students and fellow colleagues
It is my pleasure to welcome you to the latest edition of the CSE technical magazine. As the head of the department, I am proud of the hard work and dedication of our faculty and students, and I am delighted to see their achievements highlighted in this publication.

In the past year, our department has continued to make significant strides in the fields of computer science and engineering. Our faculty members have been at the forefront of cutting-edge research, pushing the boundaries of what is possible in areas such as artificial intelligence, machine learning, data science, cybersecurity, and more.

Our students, meanwhile, have demonstrated exceptional skill and creativity in their projects, competitions, and collaborations. Their passion for technology and their commitment to innovation are truly inspiring, and I have no doubt that they will continue to make a positive impact on the world around us.

As we move forward, I encourage everyone in our community to continue striving for excellence and to support each other in our shared pursuit of knowledge and understanding. Together, we can make great strides in our efforts to build a better future through technology.

Thank you for your continued support of the CSE department, and I hope you enjoy this latest edition of our technical magazine.

Dr. Sanjeev Pippal
Head of the Department
Computer Science & Engineering
GLBITM

Training & Placement

Dear students,
Being on the threshold of becoming a professional, it is time to look forward to the challenges & opportunities that lie in your professional journey ahead.

The Following 3C' philosophy can help:
1) Choice & Clarity
Choose the areas of your interest. Have clarity on your long term objectives; In career/Enterpreneurship between Aspiration and passion are very important for achieving & sustaining both Success and happiness in life. Work-life balance is the mantra.

2) Chance
Grab chances & opportunities that come your way, in line with your career choices. **Destiny is nothing but-"Preparation meeting opportunities", So, Being prepared is the key.**

3) Change
"In this world, nothing is permanent, except Changes".
This is an era of fast changing technology Agility, the ability to learn, unlearn & relearn is on top of the agenda For most of the organisations. So, along with relevant quality stills, be agile, innovative and embrace changes. It is said,
"Winning is not everything but wanting to win is" Together, let us continue to form a Winning combination and continue proving
"GLBitians are born to Fly"

Prof. Manju Khatri
Director
Training & Placement
GLBITM

Message From Editorial Desk

Dear readers,

On behalf of the editorial team, we are thrilled to present to you the latest edition of the CSE technical magazine. We have worked hard to bring you a collection of articles, features, and interviews that showcase the very best of what our department has to offer.

This issue includes a range of fascinating pieces that explore the latest trends and innovations in computer science and engineering. From thought-provoking opinion pieces to detailed technical reports, we hope that you will find something here that piques your interest.

We would like to take this opportunity to thank everyone who contributed to this issue, including our talented writers, photographers, and editors. Without their hard work and dedication, this magazine would not have been possible.

We would also like to express our gratitude to the faculty and students of the CSE department, whose ongoing achievements continue to inspire and motivate us. We are proud to be part of such a dynamic and forward-thinking community.

We hope that you enjoy reading this latest edition of the CSE technical magazine, and we look forward to hearing your feedback.

Best regards,

Contributed By

Faculty Coordinator
Dr. Sachin Yadav, Ms. Annu

Student Coordinator
Mr. Aman Gupta,

Content

Case Study

LeetCode

LeetCode is an online platform for computer programming and coding challenges. It was founded in 2015 and has since grown to become one of the most popular platforms for software engineers to practice and hone their coding skills. LeetCode provides a wide range of problems and challenges across various topics like data structures, algorithms, databases, system design, and more.

LeetCode's core value proposition is to provide a platform that helps users improve their programming skills and land better jobs. It has more than 15 million registered users from 195+ countries, and its user base is growing rapidly. However, with the growth of the user base, it has become increasingly challenging to maintain and improve the user experience for everyone.

To tackle this challenge, LeetCode uses a data-driven approach to understand user behavior and preferences. The company collects and analyzes data from various sources, including user feedback, user activity, and user engagement metrics. This approach helps LeetCode to make informed decisions about product development, content creation, and marketing strategies. Some of the key metrics that LeetCode tracks are:

• User activity: LeetCode tracks user activity across the platform, including how much time users spend on the platform, the number of problems they solve, the types of problems they attempt, and their success rates.

• User feedback: LeetCode encourages its users to provide feedback about their experience on the platform, including the quality of the content, the usability of the platform, and the overall user experience.

• User engagement: LeetCode tracks user engagement metrics like the number of likes, shares, and comments on the platform, as well as the number of followers and subscribers.

In conclusion, LeetCode's data-driven approach is a key part of its success in providing a high-quality user experience and driving growth. By leveraging data to understand user behavior and preferences, LeetCode can make informed decisions about product development, content creation, and marketing strategies, which in turn helps to provide a better user experience and achieve the company's business objectives.
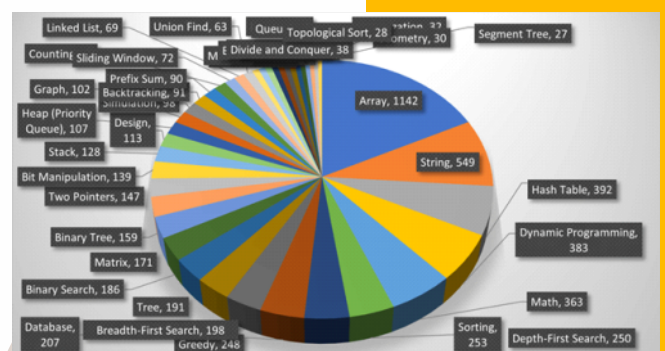
LinkedIn

LinkedIn

What is LinkedIn ?

LinkedIn is a social networking site designed specifically for the business community. The goal of the site is to enable registered members to establish and document networks of people they know and trust professionally. LinkedIn is also a resource for professionals to find jobs, research companies, and get news about their industry and business connections.

Important Features:-

For this case study, we will take following important features into consideration —

Engagement (Review and Ratings)
Content creation and engagement
Profile (individual and organization)
Networking
LinkedIn Learning
LinkedIn Jobs

Statistics of LinkedIn

No of users or customers : 875 Million
No of employees : 19000
No of countries : 200
No of worldwide offices : 36
Highest ad reach : Bermuda
Reach of marketers : 808 Million
No of minutes spent by one user per visit : 8
Most targeted age groups : late 20's and early 30's
Optimal no of images in one post : 8
No of people getting hired per minute : 6

Worldwide Reach

LinkedIn Usage Among Key Demographics
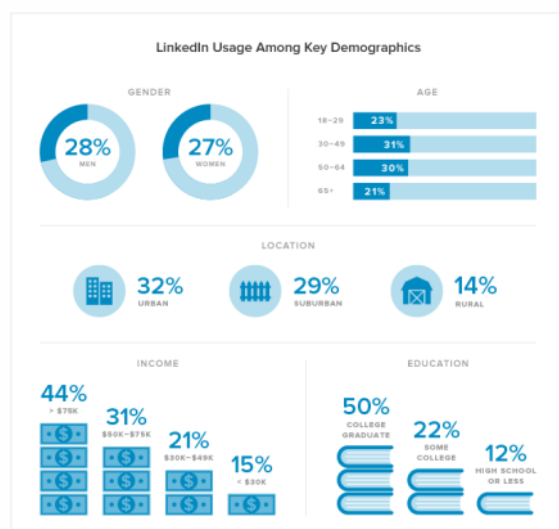
Current Technologies

1. Computing Power

Computing power has already established its place in the digital era, with almost every device and appliance being computerized. And it's here for even more as data science experts have predicted that the computing infrastructure we are building right now will only evolve for the better in the coming years. At the same time, we have 5G already; gear up for an era of 6G with more power in our hands and devices surrounding us. Even better, computing power is generating more tech jobs in the industry but would require specialized qualifications for candidates to acquire.

From data science to robotics and IT management, this field will power the largest percentage of employment in every country. The more computing our devices will need, the more technicians, IT teams, relationship managers, and the customer care economy will flourish. One essential branch under this field that you can learn today is RPA, i.e. Robotic Process Automation. RPA is all about computing and automation software that can train you for a high-paying role in the IT industry. Here are the top jobs you can target after RPA:

- Data Scientist
- AI Engineer
- Robotics Researcher
- AI Architect
- Robotics Designer

Current Technologies

2. Big Data

For the past few years, the world has been obsessed with data. Every business is trying to figure out how they can use big data to their advantage. Instead of just reading about it online or hearing about it in the news, you should try your hand at creating some big data on your own. Big data is all about gaining knowledge from large amounts of unstructured data. There are thousands of companies that are looking for people who can help them gather and analyze their data. Big data is one of the most popular new technologies in computer science.

Since the introduction of Big Data, we have witnessed a sharp increase in the amount of data that is generated and collected. The increased use of internet and mobile devices has contributed to this growth. The development of Big Data technology has made it possible for businesses to collect and analyze large amounts of data.

Some of the amazing facts about big data:
* 90% of the world's data has been created in the last two years alone.
* By 2025, it is estimated that the world's data volume will reach 175 zettabytes (or 175 trillion gigabytes).
* Big data is used in a variety of industries, including healthcare, finance, e-commerce, social media, and entertainment.
* Google processes over 3.5 billion searches per day, generating massive amounts of data.
* The human genome consists of 3 billion base pairs, and analyzing this data has led to major breakthroughs in personalized medicine.
* Walmart collects more than 2.5 petabytes of data every hour from its customer transactions.
* Facebook has over 2.7 billion monthly active users, and the platform generates massive amounts of data every day.

These facts highlight the sheer scale of the amount of data being generated in the world today and how big data is being used in a variety of industries and applications. As more data is generated, the potential for new insights and discoveries increases, making big data an exciting and rapidly growing field.
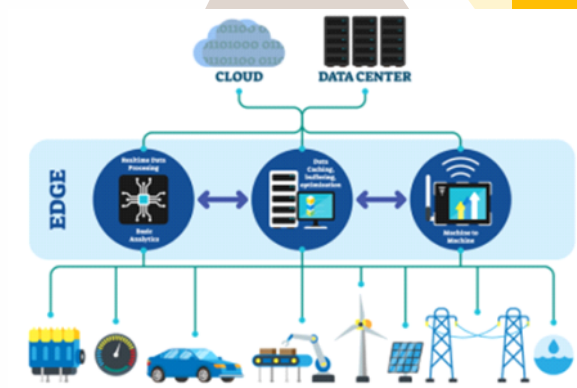
Current Technologies

3. Edge Computing

Edge computing is a distributed computing paradigm that brings computing resources closer to the source of data or the edge of the network. In edge computing, data processing and analysis are performed on devices or servers that are located closer to the data source or the end-user device, rather than being transmitted to a centralized data center or cloud for processing.

Edge computing is particularly useful for applications that require real-time data processing and analysis, such as those found in the Internet of Things (IoT), industrial automation, and autonomous vehicles. For example, in an IoT deployment, sensors and devices can collect and process data locally, and send only relevant data to the cloud for further analysis. This reduces the amount of data that needs to be transmitted over the network and can help reduce costs and improve performance.

As the quantity of data organizations is 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 data center 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.

Edge computing will increase as use of the Internet of Things (IoT) devices increases. By 2023, 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. Keeping in line with cloud computing (including new-age edge and quantum computing) will help you grab amazing jobs like:

• Cloud Reliability Engineer
• Cloud Infrastructure Engineer
• Cloud Architect and Security Architect
• DevOps Cloud Engineer

Current Technologies

4. Internet of Things (IoT)

"The IoT is changing everything, from how we live to how we work and do business. It is one of the most transformative trends of our lifetime." - Padmasree Warrior, former CTO of Cisco. some common job profiles in the IoT industry are:

- IoT Solutions Architect
- IoT Software Engineer
- IoT Security Analyst
- IoT Product Manager
- IoT Data Scientist
- IoT Hardware Engineer
- IoT Business Development Manager

IoT (Internet of Things) technology is impacting the life of a common man in many ways. Here are some examples:

Smart Homes: IoT-powered smart home devices, such as thermostats, lighting, and security systems, have made it easier and more convenient for people to control and manage their homes remotely. Smart homes also help to reduce energy consumption and save money on utility bills.

Wearable Technology: Wearable devices, such as smartwatches and fitness trackers, use IoT technology to track and monitor people's health and fitness. They can provide real-time data about physical activity, heart rate, and sleep patterns, helping people to improve their overall health and wellbeing.

Transportation: IoT technology is being used in transportation to improve safety, efficiency, and sustainability. Connected cars, for example, use sensors and communication technology to provide

real-time traffic updates and route optimization, making it easier and more convenient for people to navigate through traffic.

Healthcare: IoT technology is revolutionizing the healthcare industry by providing remote patient monitoring and telemedicine services. Patients can use IoT-powered devices to monitor their health conditions from home and share the data with their healthcare providers. This helps to improve the quality of care and reduce the cost of healthcare services.

Overall, IoT technology is making life more convenient, efficient, and sustainable for the common man. It is improving the way we live, work, and interact with the world around us.

Current Technologies

5. Quantum Computing

One of the major technological trend is quantum computing. This is a form of computing that uses quantum phenomena such as superposition and quantum interaction. Scientists see the potential of quantum computing in developing sustainable technologies and solving environmental problems. New technologies in computer science such as autonomous vehicles, video conferencing, and augmented reality benefit from edge computing. Therefore, edge computing can be used to process time-sensitive data in remote locations, with limited or no connectivity to central locations.

Final Take With so many new technologies such as cloud computing, big data, artificial intelligence and robotics striving for large-scale growth, it is no surprise that the impact of new technologies in computer science is at its peak. Given that various developmental advances like cloud computing, vast amounts of information, misinformation and mechanical technology are pushing for large-scale growth, it is not surprising that robotization is at its peak. Human talent in data processing is expected to improve at a faster pace in 2021 with the latest technologies in computer science.

All these new technologies in computer science and the latest technology of 2021 for software development for future software technology has certainly encouraged this forward. With the projected global robotics industry worth $ 80 billion by 2024, much of this growth comes from strong interest and investment in artificial intelligence (AI), one of the most controversial and intriguing areas in the world of computer science. As the number of these new technologies in computer science grows, the role of edge computing may become more widespread and profitable, making it a major technology trend in 2021.

Articles

8 Rules to learn how to code

(RULE ONE)
Trick Your Brain with the 20 minute Rule.
Learning to code is a bit like going to the gym. Even if you max out and spend a whole weekend at the gym, you will not see a visible difference in your body. The more regularly you learn to code, the more likely it is that you'll start seeing your ripped coding muscles. (The irony is not lost on me). But the problem is where do you find the time? And for that one you Are the best person for yourself to figure it out.

(RULE TWO)
Code for a Purpose
When I first started learning how to code, there were countless times when I picked it up then gave up, again and again. This is a common story amongst self-taught coders. Looking back, after spending more than 5 years in this , I finally realised what's going on. A lot of beginners start learning to code by picking an arbitrary language and following along with a bunch of tutorials.

Copying code, line by line, sometimes writing code to work out prime numbers, other times to find all the even numbers. But you know what? I can find prime numbers a lot faster by Googling for it and picking out even numbers is not all that interesting. Here's the truth. If you are learning to code for the sake of learning to code, it'll be pretty difficult for you to get good at it. Skills that require a lot of time to hone, like programming, will eat into your pool of internal motivation. Something from within that makes you forget to eat and sleep. I can honestly say that coding on my own projects is one of the most enjoyable things I do.

Articles

8 Rules to learn how to code

(RULE THREE)
There is No "Perfect" Language to Learn
Whenever I do large talks, there will always be one person who asks me "which programming language should I start learning first"? There is this common perception that somewhere out there lies a perfect language for beginner programmers. Some argue it's Python, some say it's Javascript. But I say they're all wrong.

A programming language is simply a tool. It is no different from any other tool in your hardware box. If you want to hammer a nail, you should be using a hammer. If you want to fix your water pipes, you'll probably need a spanner. Yes, it's possible to hammer in a nail using the side of the spanner and the same programming language can be used to solve different types of problems. The carpenter will tell you that his 2 favourite tool is a hammer and the plumber will say it's the spanner, but it still doesn't make it the "best tool to fix things".

A web developer will tell you that JavaScript is the best language to learn for a beginner. A statistician will advise you that you'll be best served with the R programming language. But at the end of the day, all that matters is what you are trying to do with your tool. If you want to make iOS apps, then learn Swift. If you want to make websites, you'll need JavaScript. But the good news is the core programming concepts: loops, conditionals, functions, etc. they're all the same. The difference is mostly syntactical..ime? And for that one you Are the best person for yourself to figure it out.

(RULE FOUR)
Understand What You're Writing
I have an issue with the way that most programming tutorials are written. The key to learning to code is all about ramping. You want to be stretched over and over again and for knowledge to be built on previous knowledge. If that ramp is too steep, you'll get lost. If that ramp is too shallow, you'll get bored. The right gradient is different for everyone. That's why we encourage students to use the speed change functionality liberally on our tutorials. This way, you can listen at double speed if you're comfortable with the concepts and slow down to half speed if it's something unfamiliar and you need time to understand and absorb.

"You don't need more recipes. You need to learn to cook without them" - Tim Ferriss

Articles

8 Rules to learn how to code

(RULE FIVE)
It's Ok to Not Know
Ask wisely and you will reap the benefits from the community. One day when you yourself become a code master, you'll be giving back to that same community and helping the next generation of programmers. " Don't be afraid to ask for help when you need it. Asking for help isn't a sign of weakness, it's a sign of strength. It shows you have the courage to admit when you don't know something, and to learn something new"
- Barack Obama

(RULE SIX)
Be a Copycat
I thought the way to learn to code was to read a whole bunch of books. I bought books on java. But they didn't do very much other than make me confused. I read. I highlighted. I forgot. I fell asleep. 3 Books are good as references. If you want to dive deep into delegates and protocols, read the chapter on that. But if you want to learn, make something. But what do you make? Lacking in ideas? Be a copycat. Make your own notepad, make your own MSPaint. If you're into games, make Flappy Bird, snake games. Not only will they be sort of useful, but they'll also be the perfect opportunity for you to figure out how to do things and get experience in finding help. "Good artists borrow, great artists steal." -Pablo Picasso

(RULE SEVEN)
Keep Learning
There's always new trends, new technologies and new languages. Great programmers relish learning new things, even if it means they become a beginner again. Don't be the optical drive. Or rather, don't be the laptop that's still trying to play CDs. If your needs change, learn to use a new tool. Keep learning, stay relevant.

(RULE EIGHT)
Break someone else's code
One of the most important steps to take in order to make the jump from learner coder to a fully-fledged programmer is understanding how to get help. Everyone needs help. Everyone, including those so-called "God Level Programmers". "Move fast and break things."
-Mark Zuckerberg

Research Paper

List of Publications/Patents

Year: 2020-21

1. Asha Rani Mishra, Sanjeev Kumar Pippal, Akshat Kumar, Dhananjay Singh, Abhijeet Singh," Clear Vision - Obstacle detection using Bat Algorithm Optimization Technique" at 2021 9th International Conference on Reliaility, Infocom Technologies and Optimization (Trends and Future Directions)(ICRITO), IEEE, Scopus Indexed, https://doi.org/10.1109/ICRITO51393.2021.9596467

2. Asha Rani Mishra, Sanjeev Kumar Pippal , Bhavika Rajpal,Arshita Garg ,Sushant Singh," IOT based Self-Nourishing system for Plants", Presented at Modern Electronics Devices and Communication systems MEDCOM 2021 Organised by Department of Electronics and Communication Engineering G.L. Bajaj Institute of Technology & Management, Greater Noida Oct 29th - 31st, 2021(Scopus Indexed)

3. Asha Rani Mishra, Sanjeev Kumar Pippal, Srishti Chopra," Time Series based pattern prediction using FBProphet Algorithm for COVID-19", Presented at International Conference on Robotics, Automation & Communication Engineering for Industry 4.0 04 – 05 February 2022,Manav Rachna University, (Scopus Indexed)

4. Harshit Tiwari, Shivangi Gupta, Shiven Pandey, and Asha Rani Mishra. "Smart Electricity Conservation System– A Solution to Intermediate Energy Wastage." Advancement of IoT in Blockchain Technology and its Applications 1, no. 2 (2022): 15-20.

5. Shreyash Kumar , Shivank Kumar, Vishal Rathi, Jivanshu Joshi, Rahul Swami, and Asha Rani Mishra. "SharPi-Smart Home Automation using Raspberry Pi." Journal of IoT Security and Smart Technologies 1, no. 2 (2022): 29-35.

6. India Patent Application No.202111054179 A. IOT BASED WATER DISTRIBUTION SYSTEM. The Patent Office Journal No. 49/2021 Dated 13/12/2021.

Student Projects

Year: 2020-21

1. CLEAR VISION

As per a survey which was conducted in mid-2014 by WORLD HEALTH ORGANISATION (WHO), around 39 million people are blind out of total 288 million across the word in which, 15 million (21%) people are from INDIA. Majority of the blind people are dependent on others for their day today activities. In this paper, we are proposing a concept "CLEAR VISION' an assistive shoe which acts as object detection device for the blind people to deal with the problems faced by them. The proposed smart shoes detect objects or obstacles in nearby surroundings and provides real time update to the visually impaired person in vibrational form, henceforth helps the visually impaired person to have information about the object without any other human being making them more independent.

2. Self Nourishing Plant Pot

An automatic plant watering and soil moisture monitoring system which encourages the plant growth by giving it exactly the right amount of water and in all climatic conditions is very much required. In this paper, we proposed an IOT based Node MCU microcontroller system to automate the watering process of the plant to help plants grow directly and efficiently without human care or assistance. Proposed system helps to reduce water use and can be used to save time by using the value of moisture content of plants at a given time to decide a particular plant's water need.

3. Arboreta (Online plant delivery system)

Arboreta online E-nursery is a web application, which retails various plants and gardening products. This portal allows viewing various products available enables registered users to purchase desired products instantly on a single click by making online payment mode any of their choice or cash on delivery mode. The system through the MVC (Model, View, and Controller) framework integrate network of online shopping system, completing the control layer management, processing data access.

4. Real Time Drowsy-Driver Detection

With the development in the populace, the event of car crashes has additionally observed an expansion. A detailed analysis shows that, around 60% of these accidents are caused because of driver fatigue. Drowsiness is a condition where the person experiences a decreased level of consciousness due to lack of energy. A real-time monitoring framework utilizing image processing, eye detection strategies Further, to guarantee real-time calculation, Haar Cascade samples are utilized to separate between an eye flicker and lazy/weariness detection.

Thoughts from our Mentors

Address to students:
It gives me immense pleasure to address the students in public forum As a faculty member I can only say that learning is about sharing knowledge with others. So, keep sharing your knowledge with others. Do not ever give up, always keep trying and eventually you will succeed. And last but not the least do not focus on outcome, just give your best shot and success will be yours.Wish you all the very best for your future endeavours.

Mr. Nitin Sondhi
Assistant Professor
CSE Department.

Being Consistent, Bering Insistent and being Persistent about your goal has been the only mantra of every succesful personality who has walked this planet.

Ms. Artee Khandelwal
Department of Training & Skill Development

I & U & US.
We will learn through curiosity, joy, affection, and thought. We will strive to be honest, efficient, and pragmatic. We will not use inefficient tools, technology, strategies, sources, or technology just for the sake of forms and appearances. We can and will learn from anything. As a result, we will always be learning no matter where we are or what we're doing.

Mr. Vivek Kumar Sharma
Assistant Professor-CSE Department

Dear students, unlike school days, the life of an engineering student is hectic and adventurous.You will hustle from one year to another and make memories along the way.It is just the beginning of your wonderful adult life.Enjoy yourself and always put your best foot forward. You will never be this young again. Take on challenging tasks and test yourself and remember when life starts to throw lemons at you , you make lemonade.All the best.

Ms. Subiya Zaidi
Assistant Professor-CSE Department

A college magazine reflects the consolidated efforts of the teachers and the students to contribute articles to the magazine in acreative manner. It will also exhibit the latent talents of the teachers and the students as story tellers, poets, essayists and so on. It encourages students to think and write. I personally wish all students for their bright future.

Dr. Ramashankar Yadav
CSE Department

Sources of Learning

Programing with Mosh
@programmingwithmosh•3.03M4

Topics Covered:
- Java
- C++
- System Design
- New Technologies

Telusko
@Telusko•1.9M subscribers

Topics Covered:
- Java Crash Course
- Python
- Low Level Designs

Hitesh Chodhary
@HiteshChoudharydotcom•766K

Topics Covered:
- Android Development
- Web Development
- AWS

Clever Programmer
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Topics Covered:
- MERN Stack
- Angular
- Node.js
- Deployment

FreeCodeCamp
@freecodecamp•7.05M subscribers

Topics Covered:
- System Design
- Bootcamps
- Free Crash Courses
- Unreal Engine
- System Design

NeetCode
@NeetCode•316K subscribers

Topics Covered:
- Latest Tech
- DSA
- Shell Scripting
- Python

Myths About Tech

1. Mac computers can't get viruses.

2. Private/Incognito browsing keeps you anonymous.

3. Leaving your phone plugged in destroys the battery.

4. More megapixels always means a better camera.

5. Cell Phones give you brain cancer.

6. More signal bars guarantees great cell service.

7. 3rd party chargers are harmful for your phone.

8. Something deleted from the recycle bin is gone forever.

9. Using a cell phone at a gas station pump is a fire risk.

Highest Placements 2020-21

ABHISHEK JAIN
BATCH 2020

SANDEEP DHAKA
BATCH 2020

STROT PALIYA
BATCH 2020

PACKAGE OF
₹30.25
LAKHS PER ANNUM
*CTC applicable post 6 month internship

amazon

I am Adarsh Singh of year 2021, got placed in "Amazon". I am really thankful towards our college and placement cell, for supporting and providing us opportunities to learn interview skills, communication skills and guiding us in placements. The staff was supportive and informed us with enough notice regarding every placement drive. I am grateful to have such a good T&P department.

ADARSH SINGH

I am a final year student of GLBITM, Greater Noida Computer Science branch of batch -2020-2021 and currently placed in TCS (Tata Consultancy Services), I am very thankful to the department faculty and the placement cell that helped me achieve this while guiding me at every stage. My experience with the placement procedure was really great as I got to learn a lot. The placement cell is very well versed about each step.

MANIK GOEL

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