NOVABYTE COMPUTER SCIENCE NEWSLETTER (VOLUME II - 2022-2023)

SI ANT ETTER

COMPUTER SCIENCE DEPARTMENT

In the academic year of 1991-92, the Department of Computer Science came into existence with an extremely modest infrastructure comprising 3 computers but a great vision. Starting with the B.Sc. General in the annual mode, the academic programmes of the Department kept growing and finally in 1997, B.Sc. (Honours) in Computer Science was introduced. The Department of Computer Science at Kalindi College has kept pace with academic programmes offered by other colleges in the University

In the recent years, the Department has taken the lead in the digitization of the course structure and curriculum of the College. Apart from the FDPs, the Department of Computer Science organizes Orientation Programmes, Departmental Fests, Student Awareness Programmes, Academic Conferences and many other events on a regular basis for overall development of the students. The students are also encouraged to participate in academic and non-academic inter-college and intra-college activities.

OF CONTENTS ABLE

EDITORIAL BOARD	6
ARTICLES	
<u>Cyber Terrorism</u>	8
<u>Data Science</u>	11
<u>ChatGPT</u>	13
<u>Al and Human beings</u>	14
<u>Metaverse</u>	16
<u>Al and Human</u>	17
<u>Data Science</u>	18
<u>AI and Human beings</u>	19
I <u>s CUET worthy?</u>	20
<u>Role of data science</u>	21
<u>Planck</u>	22
<u>Role of data science in Daily Life</u>	23

FROM PRINCIPAL'S DESK

<u>Metaverse</u>

<u>Cyber Terrorism</u>

the craze of CSE

The confusion after the 12th and

ABLE OF CONTENTS

POSTERS

EVENT REPORTS

<u>Brain Bolt</u>	34
<u>Sci-Fi Paint</u>	35
<u>Counselling on MCA/MSc</u>	36
<u>Scriptura</u>	37
<u>Tech-a-Thon 2.0</u>	38
<u>Cyber Armour</u>	39
<u>QuBit'23</u>	40
<u>Data Science Summit</u>	41
<u>ByteBash</u>	42
<u>VR the Tech</u>	43
<u>BollyPirates</u>	44
PRIZES	45
INTERNSHIPS	50
GALLERY	53

FROM PRINCIPAL'S DESK-



I have not failed. I've just found 10,000 ways that won't work. ~<u>Thomas A. Edison</u>

An institution of Academic Excellence and a proud mission-driven institution, Kalindi College, affiliated with the University of Delhi, was constructed in 1967. In the academic year 1991-92, the Department of Computer Science came into existence. With great vision and determination, it has done wonders in these years. The department has always provided various opportunities and encouraged students towards Computer Science. To attract students and impart knowledge, the department organises various seminars, webinars, competitions etc.

I am highly honoured to witness students working with immense dedication not only in academics but also in organising departmental activities which is an excellent source of development among them. I feel proud that students know their responsibilities and work efficiently for the betterment of their peers with the help of devoted teachers.

They have done a great job and I hope they grow higher in upcoming years. My best wishes to the department, teachers and students.

Prof. Meena Charanda

Acting Principal

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ARTICLES

and very

"THE POTENTIAL OF THE NEXT PEARL HARBOUR ATTACK COULD VERY WELL BE A CYBER ATTACK" ANONYMOUS

If the ancestors of human beings were to wake up from the long sleep of centuries, they would be amazed to see the revolutionized and digitalised world of contemporary times.

The advent of digitalisation has affected each and every sphere of human life to a great extent. But the use of IT has a double edge sword as the cases of cyber crimes, cyber terrorism has increased in recent years especially due to an increased dependence on computers for all kind of work due to the pandemic. Today we are dependent on social media so much. For everything be it online shopping or online reservation of ticket, for educational purposes, for finding the right match, for digilocker for storing all our valuable information, online payment etc. That it is difficult to imagine a world without it.

But this era of digitalisation brings with it a great concern for national security. As per the latest national crime records bureau report, a total of 50,974 cases of cyber attacks were reported this year of which 19 organizations were financial institutions. So now the question arises that what should we do now? Should we stop using the Internet? we will look at all these questions but not before we look at its history and what the term connotes.

Before understanding cyberterrorism we need to understand two more terms:

- 1. Terrorism: political violence that targets all civilians and that too indiscriminately.
- 2. Cyberspace: a virtual reality, any device that is related to IT for networking.

The term cyber terrorism was first used in the 1890s by Barry. Collins. He defined it as the convergence of cybernetics and terrorism. and the first worm was the Morris worm that has estimated to have caused damage of 100 million dollars.

The term cyber terrorism means the convergence of cyberspace and terrorism. It is different from cybercrime as it does not include cyber theft or bank fraud etc. It is generally understood as an act that is

- 1. Executed via cyberspace by an individual or a group of organisations that is influenced by a terrorist organization or its leader.
- 2. Motivated by a desire to bring political or ideological change, leading to violence that reaches to political and psychological change beyond the immediate target.

Forms of cyber terrorism include hybrid cyber terrorism, political-psychological warfare, fundraising etc.

Characteristics

- a. They have a predefined plan and specifically targeted audience
- b. aims are to destroy political, economic, civil, and military infrastructure
- c. create fear in people's minds etc.

Why cyberterrorism?

Easy to execute the plan

- Disable government functions
- To gain the trust of his fellow terrorist through successful attacks etc.

Who are cyber terrorists?

Those who use computers to execute their plans, plans which can be harmful to society as a whole Cyberterrorism is a global issue but the sad part is that it is the most ignored and underestimated issue in our country. What is scarier is that India has the largest number of internet users after China and the U.S.A. and so this is the sector which should be of our utmost importance. There has been an increase of 5% in cases of it from 2020 and 16% from 2019 as per NCRB. Recently the accounts of supreme leaders and personalities of our country were hacked by the terror organisation, we got to see cases of Aadhar card, debit/credit card fraud etc. And if talk worldwide the US has witnessed the most no. Of cyber attacks followed by Russia at the time of the Russia-Ukraine war.



In fact, India alone is a generator of 30% of cyber spam zombies that affects the regions of Asia-Pacific-Japan. Multiple measures have been taken worldwide like the European Council, bond set convert etc. Were formed to counter-attack. Talking about India specifically various measures have been taken and they are as follows:

1. Legal measures

Relevant sections of IPC

IT Act of 2008 (amended in 2012)

2. Administrative measures

National cyber security policy of 2013

- Cyber swachhata Kendra
- 3. Other

Formulation of the crisis management plan to counter such attacks And mock drills were organized to teach officials to handle such situations

But the thing is that why are we taking such drastic steps? what is the need for all this?

The answer to this question is that

1. To ensure that the institutional infrastructure of our system does not collapse under any circumstances

2. For continuity of business

If we don't take such steps these can be and were the consequences

- 1. Economic: the global GDP of 1% is lost to cyber-attacks every year
- 2. Political: may lead to political instability and dysfunction of government.

3. Social: By spreading of fake news, may lead to civil war, communal riots

EACH ONE TEACH ONE AND MAKE A DIFFERENCE

Concluding we can say that cyberterrorism is a complex issue and calls for a multi-domain and multi-dimensional approach towards it. Building up the capacity and implementing the policies properly and self-awareness may help a lot. With collective efforts let's show them that our unity can fight with any of your harmful motives. We are educated, we educate others and we fight against you.

DATA SCIENCE

BY: DIYA - BSC HONS CS - 2ND YEAR

So, The question is how do we use data science in our daily life?

We have to produce tons of data every day but how do we manage all this huge data? It can be done with data science. we have a lot of apps and software, which have known and unknown part of our daily life but we should know about it what is data science?

Data science is the fusion of various fields containing system tools, algorithms, statistics, Data analysis and machine learning. It manages our huge data or big data.



Over the past few years, data science is an important part of our life. we can see that

In every field, data science play an important role and we have many application based on data science.

- Social media
- Financial industry
- Google maps

Significance of Data Science Today

• Entertainment platforms

When we use social media apps like Instagram, Facebook, Twitter, telegram and

many more. we can see that we can connect

with people on different platforms and interact with them or we can post our pics and comment on their posts. All these things can interact with others on different platforms.

If you have ever seen that, when you want to play a video on youtube, can you ever notice you tube plays those videos that you will recommend or search on it and make a playlist for you? Actually, it can be done with the help of data science. When you open google maps, you have seen Many road maps, flyovers and station places. How far is your home from this place or how much time will be taken by bus, car or another vehicle? it can be done with the help of data science.

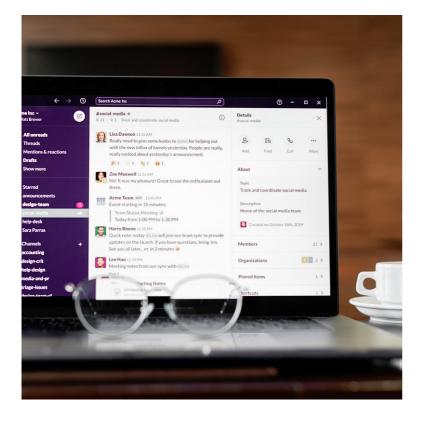
If you want to watch a new web series or movie. you will open your entertainment platforms such as Netflix, Amazon prime video, HotStar many more. they ask you and show you the top recommended videos on your screen.

It also plays an important role in our finical industry but how? Actually when you log in with your bank details like username and password or OTP. Its show whether it's actually you or not also, all these things can prevent fraud and scam and alert unwanted messages and trolls.

The importance of data science in our daily life is important to understand how to deal with millions of tons of data or big data at globalized. we can see the applications of data science and how it works. if you want to manage all these data, you will become a great data scientist.



CHATGPT BY: ADITI RATHI - BSC HONS CS - 1ST YEAR



ChatGPT has been around since November 2022 and the AI-powered chatbot gained immense popularity shortly after it was launched. From composing poetry and music to writing essays, the chatbot has proved its excellence in a variety of tasks. ChatGPT has also cleared an MBA exam and qualified for an entry-level coding job.

CA survey conducted revealed that some US-based companies have started deploying ChatGPT instead of human workers. 1,000 business leaders participated in the survey and almost half of the US companies that participated have said that they are using ChatGPT and that the chatbot has replaced workers at their companies. This is why people with graduate degrees are most afraid of losing their jobs due to artificial intelligence development. About 68.5% of them fear being replaced by AI, compared to just 55% of other respondents

As with most technological advancements, an initial fear of job loss and displacement among workers is natural. However, it is crucial to keep several points in mind, he adds. First off, similar disruption has happened before for example, the spread of computers, or more advanced and specialized machines in factories.

Al and the technology and products based on it are also still limited in certain ways.

People working alongside artificial intelligence, rather than being replaced by it, is, therefore, a more likely scenario for now, There are far more opportunities for using AI for augmenting the work of human employees than for fully automating the work of humans.

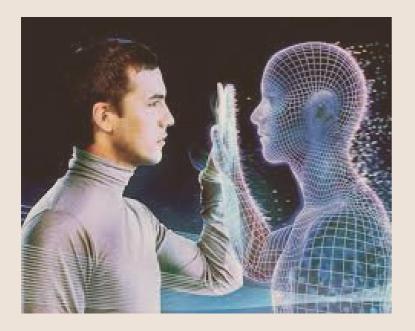
In a survey done, some claim that AI could prevent corruption and improve the economy. About 45% of respondents want artificial intelligence to adjust fiscal policy and their country's budget.

We put a lot of faith in artificial intelligence when it comes to transportation and logistics. More than half of the respondents would not mind taking a self-driving taxi (60%) or having AI manage air traffic (57%).

So the conclusion is, whilst AI algorithms and the technology based on them might not be about to replace people's jobs, they will likely become a more significant part of everyday working life — potentially sooner rather than later.

AI AND HUMAN BEINGS

BY: ALEENA UROOJ - ENGLISH HONS - 2ND YEAR



Imagine a world where robots have surpassed humans and now hold the reins of power. Well, it might not be as far off as you think.

Have you noticed the increasing presence of Al everywhere? It's been a topic that has generated a lot of discussion and excitement lately, and why wouldn't it? It embodies the prime instance of the remarkable growth in our technology.

To begin with, let's grasp the nature of AI and how it functions. AI stands for

"artificial intelligence." It works on the basis of algorithms that are designed and

coded by programmers into the computer system, and through these algorithms,

an AI learns and improves at every given task it performs.

Al is having a profound impact on our lifestyle. It enhances the way we live by

completing tasks on our behalf in a convenient and efficient manner through

automation. It is fair to say that AI is inciting a revolution in our world, and it's

important to understand its impact on humanity.

What makes AI and humanity different from each other? Let's compare and see. AI is playing a significant role in the advancement of technology in today's world, and its implementation has led to a shift in many job functions towards automation, ultimately leading to a more efficient and effortless experience for humans.

You may already be familiar with some of the incredible advancements in Al, such as self-driving cars and virtual assistants like Google and Siri. If you haven't already, I highly recommend exploring capabilities of AI. the ability to draw especially its on command; it's truly impressive. This raises the question of whether AI will replace jobs that have been traditionally done by humans, and if so, to what extent.

It's something that's been on many people's minds and has been the topic of intense debates. However, as quoted by Andrew Ng, founder of Google Brain and co-founder of Coursera, "Al is not going to kill all jobs." It is going to change all jobs. "The jobs of the future will require human skills that are complementary to AI, such as creativity, critical empathy, and thinking." Therefore, it's true that AI may change things in the short term, but experts predict that it will also create new job fields that didn't exist before. So, while we'll likely see some disruption, we're also likely to see growth and opportunity.

If we use AI responsibly, it has the potential to be one of the greatest inventions of all time. Of course, it can have negative consequences if not used properly.

As for humanity, at the end of the day, the existence of AI itself is an example of human imagination and ingenuity. The flexible and imaginative nature of humans allows them to adapt to the changes that occur throughout their lives, which ignites the potential to take a fresh approach and consider alternative solutions in ways that machines and AI are not yet capable of. Another factor that sets humans apart is their exceptional ability to exchange ideas and emotions to disseminate knowledge, ultimately resulting in the birth of sophisticated civilizations with a unique culture of their own by utilising their linguistic skills. The capability of the human mind to process intricate emotions and elusive subjects such as empathy, love, fear, and morality is not yet attainable by AI either. Lastly, humans possess an understanding of their existence, whereas AI doesn't have any consciousness and is only made as an accompaniment to humans. These innate abilities and uniqueness are what make humanity truly special.





In summary, AI can be incredibly beneficial for us if we don't let preconceived notions of AI cloud our judgement. Given the abundance of human imagination and control, AI will never be superior to humans as long as we use it wisely. The mission is to integrate human empathetic creativity and consciousness with AI's speed, precision, and reliability to produce a synergistic outcome. So, if you have ever entertained the idea of robots and AI overpowering humans, fret not, as I'm here to tell you it's nothing more than a Hollywood dream.

METAVERSE

BY: PRIYANSHI KUMARI - BSC HONS CS - 2ND YEAR

In the metaverse, where worlds collide, The boundaries of reality subside. Here, dreams and desires come alive, As we explore new realms and thrive. In this digital expanse, we roam free, As avatars of who we want to be. Our senses are heightened, our limits erased, As we navigate this virtual space. From endless landscapes to futuristic cities, Our imaginations run wild, free from boundaries. We connect with others from all around, In a world where true connections can be found. The metaverse offers a new frontier, Where we can explore without fear. A world where possibilities are endless, And the future of human connection is boundless. The metaverse has the power to unite, To break down barriers and bring light, To a world that often feels divided. To show that our connections are not one-sided. In this virtual world, we can find, A place where all can be intertwined. So let us step forth into this new world, With open minds, and hearts unfurled. In the metaverse, we can be whoever we want to be. And truly embrace our identity.



AI AND HUMAN

BY: JYOTIKA SEHGAL- CS HONS - 1ST YEAR



We have been automating tasks since we have found a way to. Machines and tools have been defining human civilisations for thousands of years. From the discovery of farming tools to the discovery of the internet, our way of life has been altered drastically. The endeavour that has captured the imagination of people from the world over is the idea of mimicking human intelligence itself. It's a concept that has been explored in science fiction long before the idea was thought of as a scientific pursuit, such as in the character of Frankenstein by mary shelley.

Even though the concept of artificial intelligence has evolved drastically since then, it has always been a source of fascination and fear alike. The idea that someone or something can share human emotions, values, or culture but not be human is a morbid curiosity for many. It raises interesting and uncomfortable questions about the meaning of personhood, the value of intelligence and the rights of living beings. Even though human-like intelligence is a long way from now, artificial intelligence is a big part of life for many. If you have ever used a modern appliance, you have likely made use of artificial intelligence. The very basic idea of adding features that utilise AI is to learn your preferences with each iteration to increase efficiency and convenience. AI is very commonly utilised by social media platforms, which is the primary method that people in this age have access to the public sphere.

The COVID-19 pandemic has only accelerated this development. However, since most and the most popular social media platforms are private ventures and are primarily driven by a profit motive, the use of AI in this case has proven to have some very detrimental effects. Since this AI is primarily interested in keeping you engaged as long as possible, and not in facilitating healthy or productive discourse, it has been found that most users use the facility for much longer when motivated by negative emotions. As a result, the more controversial and extreme opinions have been taking centre stage in the public sphere. This promotes thinking of the world in black and white and many countries have seen their political landscape altered for the worse due to this. AI is being used to alter the worldview and preferences of many people.

This seems to be analogous to a very different way of AI taking over society than robotic monsters and such but is even more sinister since most people tend to believe their thoughts and opinions to be their own. I believe that it is clear that social media is only going to increase in relevance for a long time and as such should be regulated by some central agency, failing which people will continue to be exploited in search of social media engagement.

DATA SCIENCE

BY: ROOPINA GIROTRA - BSC HONS CS- 1ST YEAR

Data Science has become a major buzzword in the technology industry. It is a field of study that deals with extracting useful insights from data. Data Science has played a crucial role in our daily lives in various ways. Here are a few examples:

Personalized Marketing: Companies use data science to analyse our buying behavior, browsing habits, and social media activity to create personalized marketing campaigns tailored to our interests and preferences.

Healthcare: Data science is transforming the healthcare industry by improving patient outcomes and lowering costs. It is used to analyze patient data, identify disease patterns and develop personalized treatment plans.

Fraud detection: Banks and financial institutions are using Data Science to detect fraudulent transactions and prevent financial crimes.

Traffic Management: Data science is used to analyze traffic patterns and predict traffic congestion. This information is used to optimize traffic flow .

Recommender Systems: Data Science is used for recommendation systems that suggest products or services based on your past behavior or preferences.

Social Media Analysis: Data Science is used to analyze social media data to gain insights into consumer behavior, opinions and trends. This information is used to develop marketing strategies, improve customer service, and identify potential brand advocates.

In a nutshell, Data Science has become an integral part of our daily lives, from personalized marketing to healthcare to traffic management. Its influence will continue to grow as more companies and industries adopt it.

AI AND HUMAN BEING BY: VARSHA - BSC HONS CS - 1ST YEAR

In the age of AI and human beings, There's a world that we are seeing, Machines and minds, in a dance so fine, As we seek to integrate and align.

The binary mind, so precise and clear, Able to process without a single tear, And yet the heart, with its subtle beat, Adds a depth that's hard to beat.

Together they create, a symphony so grand, with Infinite possibilities at their command, The mind can calculate, the heart can feel, And the combination can help us heal.

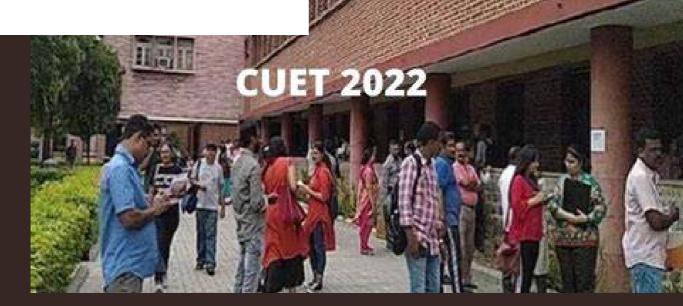
Al and human beings, working in tandem, A force that's powerful, and can't be random, A future that's bright, and full of hope, Where both can thrive, and learn to cope.

So let's embrace, this wondrous new age, As we work together, on this great stage, Let's harness the strengths, of both machine and man, And create a world, that's truly grand.



IS CUET WORTHY?

BY: KUMARI DEEPTI - BSC HONS CS - 1ST YEAR



CUET has now become the common word which is heard among the students, mostly of 12th passed.CUET (Common University Entrance Test) is a type of entrance examination to get admission to more than 200 universities (including 47 central universities). The question is that what is the importance of CUET, and why it is needed?

The first reason is that: many students are even not aware of all universities present in our country. Through CUET, students are aware of many central, state, and even private universities included in CUET. They can get opportunities to get admission to that place which many students have dreamt of that.

And Second reason is that: the marking scheme, question pattern, etc gradually changes from one state-to-other state. There is no equality of result of the 12th board on this system. In our constitution, there is freedom of equality. So our education system brings a chance where all students get equal opportunity to get admission in any university they wish. So, there is a requirement of conducting a common entrance test on the basis of the syllabus of 12th standard. Many students get their own dream college /university, and this indicates that cuet is the best way. So, I think that CUET is absolutely worthy.

ROLE OF DATA SCIENCE

BY: PRIYANSHI KUMARI - BSC HONS CS - 2ND YEAR



Ever wondered, how as soon as you type an alphabet on Google, you get several search recommendations, completing the phrases for your search? Or how, when you are looking for products on sites like Amazon, do you start getting advertisements related to that product on other sites including youtube you visit? This all happens due to the new evolving technology of Data Science.

Data Science is a new technology that many of us don't know about. Many people think that this is something for professionals' interest only and has no relation with our daily lives but the truth is that data science has a direct connection with what we are doing daily. From the field of entertainment to healthcare, data science has helped to change the view of several sectors

The hottest entertainment sources of today's time like Spotify and Netflix, have used data science for targetting their audience and increasing their viewerships. Netflix has a deep reach into data science and it has been using it for movie and series recommendations to get audience attention, to advertise its trendy content everywhere to get a high viewership, etc. Similarly, the monthly and weekly playlists you find on Spotify to which you emotionally connect as well as the artist recommendation of your genre, all is actually due to data science. Data science has taken E-Commercing to a whole other level. Sites like Amazon and Flipkart are using data science for their entire business. They used data science to improve the ratings and reviews on every product. Using data science, they collect information regarding the interest of their consumers and advertise their products on several sites that are often visited by the consumers.

Not only, data science has helped in improving businesses add targeting the audience for profit but data science has several advantages in other public sectors including healthcare also. The role of data science in healthcare is not one but many. One of the biggest use is EMRs, Electronic Medical Records, which is a centralized and quick way to trace any health-related information of the patients at any time, from anywhere, replacing the bulks of paperwork. Also, data science has helped to evolve the field of genomics and medicines in a great way. Data Science also has a great role in upgrading medical devices with new functions and applications.

It is a known fact that Airlines worldwide are experiencing huge losses but data science has become a saviour for Airways by providing them with various chances for improvements. Technologies like mapping and controlling aeroplanes, radio sensors and trackers, the landing arrangements of air crafts as well as scheduling of air rides for customers without any errors and inconvenience are done by using the applications of data science.

Data science is one of the reasons why search engines like Google, Yahoo, Bing, etc are looking like what they are today. The use of data science at the backend of these applications has enhanced their working. This is the reason why we get the best search results for our search keywords and phrases in just a fraction of a second.

PLANCK

BY: ADITI - BSC HONS CS - 1ST YEAR

Once there was a brilliant student who love to discover new things in science, mainly in physics and want to be a great scientist so after expressing his love towards the world of new discovery/researches his professor suggest that he should try the domain of biology or chemistry as there are much more chances to discover and make great research he further also said that almost all theory/research and derived things already happen in the domain of physics there are not many chances to be a great discoverer/scientists in physics, all theory that is likely to happen almost happened and only application are possible to derive from the present principles but he still continues to pursue his passion and create some great experiment and eventually he came with his greatest and the biggest experiment on quantum theory. He created a whole different branch of physics which is known as "QUANTUM PHYSICS" which is still not discovered whole and not understandable even by the biggest physicists and is known as the toughest branch of physics. Even the entire computer industry is based on quantum physics.

"Physics is hopefully, simple. Physicists are not"

Value of planck's constant:- 6.62607015 × 10-34 m2 kg / s

That student was the great physicist 'Max Planck'.

There are some important roles of Quantum physics in computer science as follows:-

1. Quantum computers have the potential to revolutionize computation by making certain Types of classically intractable problems solvable.

2. Quantum physics to store data and perform computation.

3. Quantum computing uses the nature of subatomic particles to execute calculations as an alternative to the electrical signals used in classical computing.

4. The advancements in quantum physics will benefit many industries, including machine Learning, artificial intelligence (AI), medicine, and cybersecurity.

VVEBSILE

ROLE OF DATA SCIENCE IN DAILY LIFE

BY: SHIVANGI GUPTA - BSC HONS CS - IST YEAR

Data Science is used in the field of Education enhances the performance by analyzing teachers' ratings; qualifications collects effective learning strategies; books saves the students from becoming crooks.

Data Science is used in the field of Airline Route Planning does the business analysis with route optimizing high rates of fuel, delays of flights; giving discounts were the problems for bosses strategically saved them from bearing heavy losses.

Data Science is used in the field of Healthcare Industry does the patient diagnosis, drug research; medical image analysis instantly has fast and effective treatments for almost every disease

makes visualization as pleasant as a breeze.

Data Science is used in the field of Delivery Logistics optimizes the business operations like mystics helps in profit generation by analyzing market trends increases the consumption; competence.

Data Science is used in the field of Banking; Finance protects the customer data letting them prance prevents customers' savings from theft; fraud doesn't let the user's privacy be ignored.

METAVERSE

BY- M KRTVI BAHADUR - BSC HONS CS - 1ST YEAR

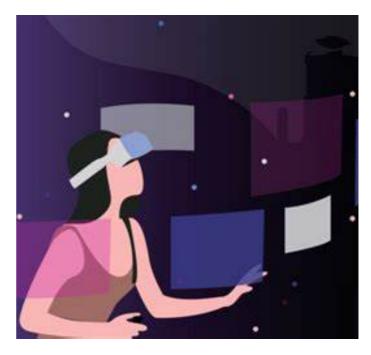
The concept of the metaverse has been around for decades. but recent advances in technology have made it closer to becoming a reality. The metaverse is a fully immersive virtual world where people can interact with each with other and digital environments in a seamless and lifelike way. Think of it as a next-generation internet that incorporates virtual reality, augmented reality, and other emerging technologies.

The potential of the metaverse is immense. In a fully realized metaverse, people could attend virtual concerts, participate in immersive gaming experiences, and even shop for goods and services within digital storefronts. This has the potential to revolutionize the way we interact with each other and conduct business online.

However, the development of the metaverse also raises some concerns. One of the primary concerns is the issue of privacy. In a virtual world everything is where connected. personal data and information could be easily exploited or misused. It will be essential to address these issues proactively to ensure that the metaverse remains safe and а welcoming environment for all.

Another concern is the issue of control. The metaverse has the potential to be controlled by a few large companies, which could have significant implications for the development of the internet and the way we interact with it. It will be important to ensure that the metaverse is a decentralized and open platform that promotes innovation and creativity.

Despite these concerns, many tech companies are investing heavily in the development of the metaverse. Facebook has recently announced that it is rebranding itself as Meta and will be focusing on building the metaverse. Other companies such as Microsoft, Google, and Amazon are also exploring the potential of the metaverse.



The development of the metaverse is still in its early stages, and there is a lot of work that needs to be done to make it a reality. One of the biggest challenges is creating a seamless and lifelike experience that is indistinguishable from the real world. This will require significant advances in virtual reality, augmented reality, and other technologies.

Another challenge is creating a system that is scalable and can accommodate millions of users at the same time. This will require significant advances in cloud computing, networking, and other technologies.

The metaverse has the potential to transform the way we live, work, and play online. It represents a fascinating new frontier in the world of technology and has the potential to change the way we interact with each other and conduct business online. As we continue to explore its possibilities, it will be interesting to see how this concept evolves and how it ultimately shapes the future of the internet.





CYBER TERRORISM

BY: PARUL SHARMA - CS HONS - 3RD YEAR

" World is at risk, keyboards taking form of nuclear bombs"



Information and communication technology (ICT) has been a very important part of our life in today's world. Cyberterrorism or simply we can say cybercrime can be defined in different terms by different organisations/institutions.

ACCORDING TO FEDERAL DEPARTMENT: it is a pre-decided, motivated attack against computers, information, and confidential data to invoke violence or threat or fear among the public or the government.

ACCORDING TO ICT (INFORMATION AND COMMUNICATION) DEPARTMENT: Cyber terrorism is the outbreak of law or threat against individuals' private data, public needs etc.

In our Indian constitution ACCORDING TO SECTION 2(1), IT ACT OF 2000 it's illegal to do any kind of cyber terror it can lead to imprisonment as well as a fine.

Mandatorily, it is one of the most dangerous evils that is persisting in our society(Or world). Unfortunately, it is upholding its roots very badly. Mostly, cyber attacks happen on government data, and banking data but nowadays it's also happening to industrial sectors, especially in IT sectors. WAYS IN WHICH CYBER TERRORISM HAPPENS Now, if we talk about the serious ways of it, then definitely there are so many points to be taken care of.

- 1. Advanced persistent threat (APT): is one of the persisting threats under cyber Terrorism. In this, attackers try very hard to get the confidential content government of authorities. lt also includes hacking someone's bank password, and account information through fake links. Then through this hackers become able to get hold of money in different accounts.
- 2. Through malware, Trojan horses, malicious software, and many other threatening viruses: systems get attacked by viruses which include different severe attacks on their internal structures. Some viruses keep on multiplying, some disable functioning and many more such attacks.
- 3. RANSOMVIRUS ATTACK: cases under this type of attack are at their peak nowadays. In this attackers demands ransom from victims to free their accounts, and to provide them back with their account information.
- 4. PHISHING: again one of the uprising threats. In this, emails, emails get attacked and every password and security gets disabled.
- 5. Indirect attack: In this owners of systems lose control over their system and own data.

Subsequently, the points mentioned above are cyber Terrorism in one way or the other . Every single second these are getting multiplied. we never know when a person can get attacked by it. The culprits (attackers) who are successfully executing all this are very expert and keen on this work. Not only the physical harms, social crimes likerobbery, rape, poverty, and murder are serious threats to a country's (or the world's) security but cyber terrorism is equally considerable. It's a social evil no doubt. We never know every single second a person sitting on his/her chair will be planning or executing this crime very easily and appropriately. This keeps on affecting innocent or we can say people with a lack of awareness, and knowledge.



IMPACTS

There are many impacts of this social evil. Some say it doesn't have any physical harm but only financial or economic harm.

But it has physical, economic, financial, and emotional harm to an individual or a group of individuals.

Cases observed all over the world

According to a world survey of 2020, around 1800 cyber crimes that are registered have taken place in different corners of the world. Some are:

- In Korea, North Korea has planned a cyber attack against South Korea by secretly getting their military information.
- China keeps on manufacturing many viruses to attack other systems so as to get financial benefits.
- Poland has increased the amount of Hydrogen Peroxide in the water plants of Switzerland by manipulating its scientific data.

Mitigations:

Definitely one needs to have carefulness while having any mobile usage, internet surfing, or using any electronic device that is having our personal information. There should be increased use of anti-malware software, anti-malicious software etc.

But, the main point is remaining awarded all the time. Not to share any personal information with any stranger. Not to click any unknown links shared on social media day by day.

"I have seen one incident of cyber terrorism in my own family. One of the family members of my family has got a call from some unknown person who is already having info about that person .attackers say that he is an acquaintance of my family member. And he needs urgent economic help. He shares a link for that on the phone and the account gets frozen. "

THE CONFUSION AFTER 12TH AND CRAZE OF CSE





By: GARIMA - BSC HONS CS - 1ST YEAR

The field of Computer Science is a wonder for many and for students of the science stream, the most sought field when it comes to Engineering. Every year lakhs of students appear for the Joint Entrance Examination in the hopes of getting admission to their dream IIT or NIT and getting a B.Tech. degree. Only a few thousand students can fulfil it though and out of these thousands, a large proportion sways towards either CSE or IT. Got 90+ percentile? The first choice is mostly CSE/IT. The craze of Computer Science is such that if someone with a good rank chooses Civil or Electrical, people question the student's choice.

Choosing a major for graduation is the first step in deciding one's field of career and ultimately the path one will walk for the next four years. A decision made based on trends and pressure can be the cause of regret and wasted time, not to mention the impact it could have on one's future.

While being influenced by a trend or popular stream may not necessarily be a bad thing, being blindsided by said trend is. Coming to the point of the craze of Computer Science among students, the most concerning point is that many jumps into this line of work head-first without even knowing anything. For them, the word computer = coding = wonder. Few look into the whole scenario or try to understand what Computer Science is and the number of people who do is alarmingly low.

For the 10 lakh students getting admission in IITs, NITs, GFTIs, IIITs and other engineering institutions, CSE is the golden fruit everyone wants. As a result, the institutions are unable to fill even one-third of the seats in other disciplines apart from Computer Science and Information Technology. Even the Department of Electronics is seeing dust.

The world we live in and the challenges we face on a day-to-day basis require a multi-disciplinary team to tackle the problems efficiently. Someone needs to work in construction, someone needs to make the machines to do said construction, someone needs to grow crops and work in agriculture, healthcare, energy, defence, research, education etc. Engineering isn't all about Computers and Computer Science. It's about providing optimal and sustainable solutions to society's needs. Which, sad to say, only a small fraction of the engineering students understand.

And then there's the part where students go for B.Sc. instead of B.Tech. simply because they thought that it won't have "much mathematics". Meeting students and hearing this, I have to say that I was truly shocked. When asked whether they went through the syllabus of the course before choosing a said course, I believe you can guess their answer. Computer Science, in simple words, is the science of computers. And science is incomplete without mathematics. While science explains the what and how of the world we live in and the working of things we make and work with, mathematics provides the base and backbone to the scientific theories which explain them. Without mathematics, it would be impossible to explain some of the wonders of the universe: without mathematics, the computers of today and the digital world wouldn't have come into existence.

Having come across many computer science students who got in it because "it seemed fun and cool", I have seen students in their third or fourth year preparing for civil services, MBA and other streams, it goes without saying that most of these students will be regretting their decision in the upcoming three years or maybe four, given the new NEP 2020 policy.

But what is most painful to see is the huge number of students aimlessly choosing their major without even going through the syllabus of the course,

without knowing what that path has waiting for them — effectively taking away the joys of the journey of learning.

What students need to tackle this problem is proper counselling, after class 10th and 12th both. First to be able to choose their stream in Senior Secondary wisely and second to choose their path for four years nicely; so that every student can enjoy the journey of learning, can cherish their graduation time and look back and be able to say, "Yes, I made the right choice."





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POSTERS



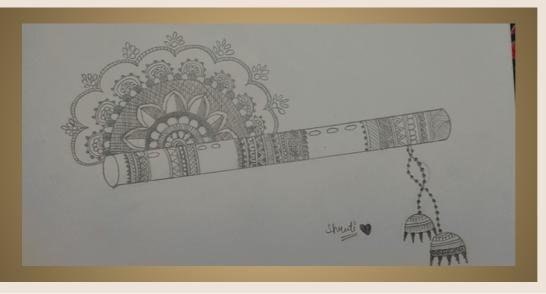


Art by: Shruti Kumari, BSc Physical Science

POSTERS







Art by: Shruti Kumari, BSc Physical Science and Aditi Rathi, BSc(Hons) Computer Science, 1St year

EVENT REPORTS



BRAINBOLT

20th September, 2022.

An intra-college quiz competition was held by Sattva, the computer science society of Kalindi College on 20th September 2022. The event was conducted in offline mode and the venue was Lab 1 and Lab 3 of the Computer Science Department, administrator block, Kalindi College.

It was a three-round competition that covered the areas of general awareness, freedom struggles, and technology in each round respectively.

Round 1 had the theme of General Awareness to check the general knowledge of students about the current affairs happening in our country and the world. 20 of the 77 students were selected after winning and teams were formed using a chit system. The other 2 rounds that were related to freedom Struggle and Technology related were played.

WINNER TEAM - MPHASIS

- GARIMA SHARMA(BSc (H) Computer Science)
- ARYA CHATURVEDI (BA (H) political science)

RUNNER-UP TEAM - WIPRO

- RUPALI (BSc (H) Computer Science)
- AMITA KUMARI(BVoc.)

SCI-FI PAINT

27th October 2022-31th October 2022

An inter-college Poster Making competition as conducted by Sattva, The Academic Society of Computer Science Department, Kalindi College from 27th October 2022 to 31st October 2022. The event was conducted in offline mode and students had to come to the Computer Science department to submit their posters.

It was a technology and Women-empowerment-based postermaking competition in which participants had to make posters on given themes and submit them in the given time frame.

Themes were:

- Blockchain
- Cyber Security
- Data Science
- Contribution of Women to Computer Science

<u>WINNERS</u>

FIRST POSITION

• SHWETA BAHOT(BSc (H) Computer Science)

SECOND POSITION

JAISHREE RANA(Bsc Physical Science)

THIRD POSITION

GAURI(BVoc. Web Designing)

COUNSELLING ON MCA/MSC 4TH NOVEMBER,2022

Sattva, the academic society of the computer science department Kalindi College conducted a seminar with the help of Landmark Institution **on November 4, 2022**. The event commenced **at 11:00 AM** in which undergraduate students with computer science in their course took part. About 95 students attended the seminar. Our anchor Abhipriya Bhardwaj (Joint Secretary of sattva) showed her gratitude and welcomed the Guest and teachers. The seminar was conducted in offline mode and the venue was L1 and L3 of the Computer science department, Kalindi College. The speaker of the seminar was Prof. Ritukar Chadha, who is presently the Director of Landmark Institution.

The entire seminar was on "What kind of institution the landmark is?" "What are they famous for?" then he told students about different IT companies and career opportunities in IT companies in the coming couple of decades. He added top institutes of India and their facilities. He continued with the major MCA entrance exam and their exam patterns. He told us about the time required for the preparation of the same. He welcomed all the doubts of the students and answered them enthusiastically. It was an interactive session for everyone.

SCRIPTURA

4TH NOVEMBER,2022

An intra-college Article Writing competition was conducted by Sattva, The Academic Society of Computer Science Department, Kalindi College on 20th September 2022. The event was conducted in offline mode and the venue was Lab 1 and Lab 3 of the Computer Science Department, Administrative Block, Kalindi College.

It was a technology-based creative writing competition in which participants had to write their articles in a given time.

This event was judged by:

- Dr Vandana Gupta
- Dr Sushil Malik
- Dr Reshu Chaudhary

<u>WINNERS</u>

FIRST POSITION

• PARUL SHARMA(BSc (H) Computer Science)

SECOND POSITION

• ARYA CHATURVEDI(BA Political Science)

TECH-A-THON 2.0

5th November, 2022-9th November, 2022

The Society of Computer Science Department, Sattva, of Kalindi College organized a Five-day competitive programming event from 5th November 2022 to 9th November 2022. The event was organised on a virtual platform "Google Meet" and the competition was organised on GitHub. The event started at 10:00 AM in which undergraduate students from various colleges took part. Timelimit for the competition was of five days.

The themes for the event were:

- 1. Food and Grocery
- 2. Online Banking
- 3. Travelling
- 4. Music
- 5. Education

Judges of the Event were:

- Mr Avinash Koshal
- Mr Rahul Shukla
- Mrs Neha Singh
- Ms Kanishka Bamania

<u>WINNERS</u>

FIRST POSITION - MAIN RANGERS

 Yashi Johari, Keshav Aggarwal - 2nd year, B.Tech (EEE), BITS Pilani

SECOND POSITION - CREATIVE TEAM

Arti Verma and Samriddhi Tripathi – 3rd year, Kalindi College

CYBER-ARMOUR

8TH FEBRUARY,2023

Sattva, the academic society of the computer science department at Kalindi College conducted a seminar on "CYBER SECURITY" on 8th February 2022. The event commenced at 12:30 PM in which undergraduate students with computer science in their course took part. Various students attended the seminar. The seminar was conducted in offline mode and the venue was Seminar Room, Kalindi College. The speaker of the seminar was Mr Santosh Soni, CEH and CHFI and Mr Lokesh Verma, Manager of Cyber Security, Amazon.

The entire seminar was about "Cybercrime and what precautions we should take" he told the students that is Cybercrime, if someone has any intention to harm anyone mentally or emotionally they can perform Cybercrime. The moment we are connected to the internet we can be a victim of Cybercrime. Cybercrime could happen to anyone or anywhere and in between he asked questions to interact with students which lead the session more interesting. The questions he asked were "Assume he is a bank employee and talking to you very legitimately and somehow he knows your bank name and he is asking for some information would you share the information?" Many of them say yes. So these kinds of calls could take you to be a victim of Cybercrime. And he also acknowledge about Aadhar card numbers that we used to share very frequently without Knowing that the Aadhar card is linked to many accounts. He told us where we have to report and what corrective action we should take. The person should report to the appropriate legal agency and in case of financial fraud approach the concerned bank and give a written complaint with all artefacts lastly, he ended the session while telling about Cyber security as a career option which has now a very lucrative and amazing mainstream career option for youngsters. The whole session was very interactive and interesting and we learn many new things.

QUBIT'23

ANNUALTECH FEST

Sattva, The Computer Science Society of Kalindi College, University of Delhi organized its annual flagship fest, "QuBIT'23", where gearheads defy convention. This well-acclaimed tech fiesta accelerates geeks with confidence and fun. We witnessed this fest on the 12th and 13th of April 2023

This Event was a convocation of 4 thrilling events. These were:

- DATA SCIENCE SUMMIT: Seminar on Data Science
- BYTEBASH: Coding Competition
- VR: THE TECH: Graphic Content Competition
- BOLLYPIRATES: Treasure Hunt

QUBIT'23 e standardized and supervised by 19 enthusiastic girls and under the guidance of 3 associate-level professors.

DATA SCIENCE SUMMIT

12th April,2023

As a part of the fest, the Sattva Society of Computer Science organised a Seminar on the topic "DATA SCIENCE" The seminar was conducted in offline mode and the venue was Seminar Room, Administrative Block, Kalindi College. The Speaker of the Seminar was, GauravRawat who is presently Data Scientist at Infosys and his wife Ekta Negi. Gaurav Rawat Sir is an experienced Consultant with a demonstrated history of working in the Analytics domain. Strong professional with a Master of Business Administration (MBA) focused in Operations and Marketing. Strong understanding of predictive modelling, data processing, and data mining, Exploratory data analysis, Machine learning algorithms to solve challenging business problems. He is top-skilled in SAS Programming, Business Analytics, and Microsoft Office. He is certified in Cut Short Certified Machine Learning (ML), Data Analytics using Excel, Master Data Science using SQL, Marketing: Strategies Framework, and Python for Data Science. Ekta Negi mam is Consulting Data Scientist, mentor, and Data Analytics.

The entire seminar was focused on "HOW DATA SCIENCE IS IMPORTANT". The speaker explained the fields one can choose in this area according to their knowledge and interest. They explained the difference between data science and data analytics. They explained the languages need to be in such a field. More focused on Python as it is the most popular language nowadays and easy too, so everyone prefers to work on it. They also talked about how one can grow more in such fields.

BYTEBASH

12th April,2023

An inter-college coding competition "ByteBash" was conducted by Sattva, the Academic Society of Computer Science Department of Kalindi College, on the college campus (offline event) as a part of the annual inter-college fest 'QUBIT'23' in which undergraduate students from various colleges took part. The registrations started at around 12:45 pm & tokens were distributed simultaneously.

Deesha Khanna anchored the event & informed the rules participants. There were two rounds- MCQ or the elimination round & coding round.

Round-1 started at 1:30 pm as the question paper was given to students. The duration of the event was of 30 minutes. As the round ended, the time of submission was written on the sheet of each student & teachers of the CS department checked the answers.

Students were given food coupons & a short break. A total of 13 (out of 25 participants) made it to round-2 which started at around 3 pm. The duration of this round was of 2 hours. Participants were given real-life coding problems & were allowed to code in any language (C++, Python, Java). As the answers were automatically submitted as soon as 2 hours ended, the leader board was displayed & winners were announced.

<u>WINNERS</u>

FIRST POSITION

• Mayank- B.Sc. Hons. CS, 2nd year, SGTB Khalsa

SECOND POSITION

• Jatin- B.Tech., 2nd year, JSSATE

THIRD POSITION

• Shiv Sagar- BCA, 2nd year, CPJ

VR-THE TECH

13th April,2023

An inter-college graphic content creation competition was held by Sattva, the academic society of the computer science department, Kalindi College on 14th April 2023. The event was conducted in offline mode and the venue was Lab 2 and Lab 3 of the Computer Science Department, academic block, Kalindi College. The competition covered topics of cybersecurity, data science, blockchain and cloud computing. The event was conducted in both online as well as offline mode. This event was judged by:

- Mrs Neha Singh
- Dr Sushil Malik

<u>WINNERS</u>

FIRST POSITION - TALENTED TROOPS

• Rupali, Kashish, Sanjana - Bsc Hons Cs, Kalindi college

SECOND POSITION- VISUAL DECORS

• Khushi and Divya- Bvoc Web Designing, Kalindi College

THIRD POSITION - ESOTERIC

 Manaal Johari-BTECH(Mechanical Engineering, Shiv Nadar University

BOLLYPIRATES

13th April,2023

An inter-college treasure hunt "BOLLYPIRATES" was conducted by Sattva, the academic society of the Computer Science Department of Kalindi College, on the college campus (offline event) as a part of the annual inter-college fest 'QuBIT 23' in which undergraduate students from various colleges took part. The judges of the event were : •Dr. Reena Jain • Ms Sweety

WINNERS

FIRST POSITION - HUNT LEGENDS

 Saloni Rana, Anshika Varshney, Gunjan Badhautiya - Bsc Hons Cs, Kalindi College

SECOND POSITION- STARRY NIGHT

 Nishita Biesen, Vanshika Khurana, Riya Rajput - BA Programme, Kalindi College

THIRD POSITION - POWERPUFF TEAM

 Jayantika Kumari, Pushpita Kesari, Yana Gupta - BA Hons Economics, Kalindi College



PRIZES



Computer Science Prize									
S.no	Name of Prize	Awarded for	Name of the Students	Course Name	College Roll No.	University Roll No.	Present Semester	GRADE POINT/ CGPA	
1	Indumati Mehra Prize	Highest Marks in Comp. Sc in B.Sc PS Sem I & II	Neha Pal	BSc. Physical Science	21582032	21033582025	IV	9.2	
2	Indumati Mehra Prize	Highest Marks in Comp. Sc in B.Sc PS Sem I & II	Shalu	BSc. Physical Science	21582033	21033582037	IV	9.2	
3	S.D. Mehra Memorial Prize	Highest Marks in Comp. Appln. in B. A. (Prog) Sem I & II	Kanchan	B.A. Prog.	21501053	21033501155	IV	10	
4	Puruskar Memorial Prize	Highest Marks in B. Sc (H) Comp. Sc Sem I & II	Prachi Aggarwal	B.Sc(H) Computer sc.	21570015	21033570042	IV	9.59	
5	Students Union Prize for Standing	First in B. Sc. (H) Comp. Scsem I and II Combined	Prachi Aggarwal	B.Sc(H) Computer sc.	21570051	21033570010	IV	9.59	
6	Students Union Prize for Standing	Second in B. Sc. (H) Comp. Scsem I and II Combined	Ayushi	B.Sc(H) Computer sc.	21570051	21033570010	IV	9.45	
7	Student <mark>s Union</mark> Prize for Standing	First in B. Sc. (H) Comp. Sc sem III and IV Combined	Ish <mark>a S</mark> harma	B.Sc(H) Computer Science	20570014	20033570008	VI	9.61	
8	Students Union Prize for Standing	Second in B. Sc. (H) Comp. Sc sem III and IV Combined	Bhawna	B.Sc(H) Computer Science	20570006	20033570002	VI	9.57	
9	Students Union Prize for Standing	First in B. Sc. (H) Comp. Sc sem V and VI Combined	Mansi Dhyani	B.Sc(H) Computer sc.	19570046	19033570003	Passed out	9.38	
10	Students Union Prize for Standing	First in B. Sc. (H) Comp. Sc sem V and VI Combined	Jagriti Yadav	B.Sc(H) Computer sc.	19570048	19033570007	Passed out	9.38	
11	Students Union Prize for Standing	First in B. Sc. (H) Comp. Sc sem V and VI Combined	Neeti Wason	B.Sc(H) Computer sc.	19570063	19033570025	Passed out	9.38	
12	Students Union Prize for Standing	First in B. Sc. (H) Comp. Sc sem V and VI Combined	Avantika Nautiyal	B.Sc(H) Computer sc.	19570047	19033570032	Passed out	9.38	

S.no	Name of Prize	Awarded for	Name of the Students	Course Name	College Roll No.	University Roll No.	Present Semester	GRADE POINT/ CGPA
13	Students Union Prize for Standing	First in B. Sc. (H) Comp. Sc sem V and VI Combined	Deepika Chauhan	B.Sc(H) Computer sc.	19570056	19033570038	Passed out	9.38
14	Students Union Prize for Standing	Second in B. Sc. (H) Comp. Sc sem V and VI Combined	Yashika Aggarwal	B.Sc(H) Computer sc.	19570080	19033570002	Passed out	9.25
15	Students Union Prize for Standing	Second in B. Sc. (H) Comp. Sc sem V and VI Combined	Kusum	B.Sc(H) Computer sc.	19570091	19033570004	Passed out	9.25
16	Students Union Prize for Standing	Second in B. Sc. (H) Comp. Sc sem V and VI Combined	Jatika Ahuja	B.Sc(H) Computer sc.	19570097	19033570012	Passed out	9.25
17	Students Union Prize for Standing	First in B.Sc. PS Sem V and VI	Swarnima Gola	B.Sc Physical Science	19582023	19033582016	Passed out	9.45
18	Students Union Prize for Standing	Second in B. Sc. PS Sem V and VI	Swati Bisht	B.Sc Physical Science	19582006	19033582003	Passed out	9.32
19	St <mark>udents</mark> Union Prize for Standing	Second in B. Sc. PS Sem V and VI	Devika	B.Sc Physical Science	19582015	19033582009	Passed out	9.32
20	Students Union Prize for Standing	Second in B. Sc. PS Sem V and VI	Sonia Singh	B. <mark>Sc Physical</mark> Science	19582071	19033582045	Passed out	9.32
21	Students Union Prize for Standing	First in B. A. (Prog.) Computer AplSem I and II	Kanchan	B.A. Prog.	21501053	21033501155	IV	9.5
22	Students Union Prize for Standing	Second in B. A. (Prog.) Computer AplSem I and II	Vaishali Pundir	B.A. Prog.	21501396	21033501422	IV	9.5
23	Students Union Prize for Standing	Second in B. A. (Prog.) Computer AplSem I and II	Anjali Kumari Singh	B.A. Prog.	21501433	21033501038	IV	9.5
24	Students Union Prize for Standing	First in B. A. (Prog) Computer AplSem III & IV	Saara	B.A(P) computer application	20501007	20033501006	VI	9.5
25	Students Union Prize for Standing	Second in B. A. (Prog) Computer AplSem III & IV	Shreya Nandni	B.A(P) computer application	20501008	20033501007	VI	9

S.no	Name of Prize	Awarded for	Name of the Students	Course Name	College Roll No.	University Roll No.	Present Semeste r	GRADE POINT/ CGPA
26	Students Union Prize for Standing	Second in B. A. (Prog) Computer AplSem III & IV	Priya Joshi	B.A(P) computer application	20501010	20033501008	VI	9
27	Students Union Prize for Standing	Second in B. A. (Prog) Computer ApISem III & IV	Arpita Jaiswal	B.A(P) computer application	20501012	20033501010	VI	9
28	Students Union Prize for Standing	Second in B. A. (Prog) Computer AplSem III & IV	Rashmi Kumari	B.A(P) computer application	20501013	20033501011	VI	9
29	Students Union Prize for Standing	Second in B. A. (Prog) Computer ApISem III & IV	Yashi Johari	B.A(P) computer application	20501016	20033501014	VI	9
31	Students Union Prize for Standing	Second in B. A. (Prog) Computer ApISem III & IV	Katyayni Srivastava	B.A(P) computer application	20501119	20033501097	VI	9
32	Students Union Prize for Standing	Second in B. A. (Prog) Computer ApISem III & IV	Devi Vriti Tripathi	B.A(P) computer application	20501133	20033501107	VI	9
33	Students Union Prize for Standing	Second in B. A. (Prog) Computer AplSem III & IV	Shreya Somvanshi	B.A(P) computer application	20501141	20033501114	VI	9
34	Students Union Prize for Standing	First in B. A. (Prog) Computer Apl Sem V & VI	SHAILJA SINGH	B.A. Prog Comp. Application	19501187	19033501141	Passed Out	10
35	Students Union Prize for Standing	Second in B. A. (Prog) Computer Apl Sem V & VI	SANCHI TAYAL	B.A. Prog Comp. Application	19501259	19033501192	Passed Out	9
36	ACADEMIC PRIZE	First in B. Sc. (H) Comp. Sc part 1	Prachi Aggarwal	B.Sc(H) Computer sc.	21570015	21033570042	IV	9.59
37	ACADEMIC PRIZE	Second in B. Sc. (H) Comp. Sc part 1	Ayushi	B.Sc(H) Computer sc.	21570051	21033570010	IV	9.45
39	ACADEMIC PRIZE	First in B. Sc. (H) Comp. Sc part 2	Isha Sharma	B.Sc(H) Computer Science	20570014	20033570008	VI	9.61
38	ACADEMIC PRIZE	Second in B.Sc. (H) Comp. Sc part 2	Bhawna	B.Sc(H) Computer Science	20570006	20033570002	VI	9.57

S.no	Name of Prize	Awarded for	Name of the Students	Course Name	College Roll No.	University Roll No.	Present Semester	GRADE POINT/ CGPA
26	ACADEMIC PRIZE	First in B. Sc. (H) Comp. Sc part 3	Mansi Dhyani	B.Sc(H) Computer sc.	19570046	19033570003	Passed Out	9.38
27	ACADEMIC PRIZE	First in B. Sc. (H) Comp. Sc part 3	Jagriti Yadav	B.Sc(H) Computer sc.	19570048	19033570007	Passed Out	9.38
28	ACADEMIC PRIZE	First in B. Sc. (H) Comp. Sc part 3	Neeti Wason	B.Sc(H) Computer sc.	19570063	19033570025	Passed Out	9.38
29	ACADEMIC PRIZE	First in B. Sc. (H) Comp. Sc part 3	Avantika Nautiyal	B.Sc(H) Computer sc.	19570047	190335700 <mark>32</mark>	Passed Out	9.38
31	ACADEMIC PRIZE	First in B. Sc. (H) Comp. Sc part 3	Deepika Chauhan	B.Sc(H) Computer sc.	19570056	19033570038	Passed Out	9.38
33	ACADEMIC PRIZE	Second in B.Sc. (H) Comp. Sc part 3	Yashika Aggarwal	B.Sc(H) Computer sc.	19570080	19033570002	Passed Out	9.25
34	ACADEMIC PRIZE	Second in B.Sc. (H) Comp. Sc part 3	Kusum	B.Sc(H) Computer sc.	19570091	19033570004	Passed Out	9.25
35	ACADEMIC PRIZE	Second in B.Sc. (H) Comp. Sc part 3	Jatika Ahuja	B.Sc(H) Computer sc.	19570097	19033570012	Passed Out	9.25

INTERNSHIPS

Students Pursuing Internships

S. No	Name	Roll No.	Course	Title/Topic of Internship	Start Date	End Date	Name Of Company/Organi sation/Institute
1	Nehs	21582014	BSc Physical Science with CS	Graphic designing	10/2/2022	12/2/2022	Nutriage
2	Hina Kumari	20582057	BSc Physical Science with CS	Campus ambassador	1/29/2021	4/4/2023	Guby Rogers
3	Muskan malik	21582012	BSc physical science	Sales and marketing department	1/21/2022	21/2/2022	Homeflic wegrow
4	Muskan malik	21582012	BSc physical science	Market research intern	1/4/2023	2/4/2023	Homeflic livings pvt Itd
5	Muskan m <mark>al</mark> ik	21582012	BSc physical science	Sales and marketing	11/16/2022	12/16/2022	Esthetix Media
6	Muskan malik	21582012	BSc physical science	Management Trainee	1/21/2022	21/2/202 <mark>2</mark>	Maatangi Builders private limited
7	Yukta Charla	20501006	B. A Programme(CA and Geo)	Graphic Designer	12/2/2022	1/2/2023	Suvidha Foundation
8	Disha Talwar	20570057	B.sc (H) Computer Science	Senior HR	1/1/2021	29/8/2021	Homeflic WeGrow

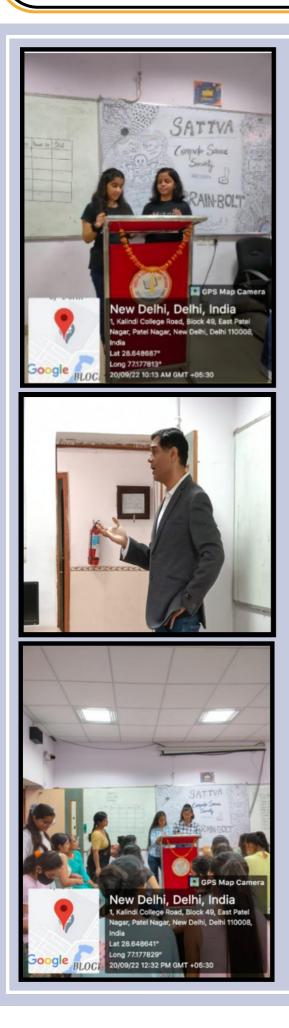
Students Pursuing Internships

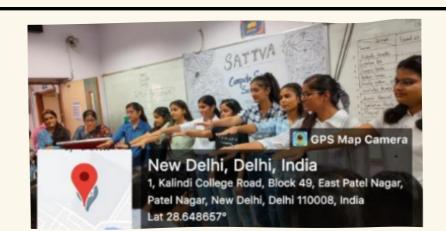
S. No	Name	Roll No.	Course	Title/Topic of Internship	Start Date	End Date	Name Of Company/Organi sation/Institute
9	Prachi Aggarwal	21570015	BSc (H) Computer Science	Content creation	26/5/2022	20/11/2022	Swell
10	Simran	21582038	BSc Physical Science with Computer Science	Graphic Designing	1/1/2023	1/3/2023	Nutriage
11	Mahak bansal	21570054	BSc CS hons	Campus ambassador.Commu nication skills enhancement	1/3/2022	1/6/2022	Swell
12	Neha	21570039	BSc. Hons Computer Science	Campus ambassador,Commu nication skills enhancement	20/5/2022	30/11/2022	Swell
13	Shreya Chettri	20570010	BSc (hons) Computer Scien <mark>ce</mark>	Content Writing	21/11/2022	18/1/202 <mark>3</mark>	Knack Ardour
14	Prachi Aggarwal	21582045	BSc Physical Science with Computer Science	Graphic designing	10/2/2022	12/2/2022	Nutriage
15	Tannu	20501004	BA Programme	Business development	2/4/2022	4/4/2022	Homeflic wegrow



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New Delhi, Delhi, India 110006, near Kalindi College, Univers East Patel Nagar, Patel Nagar, New De Lat 28.64874° Long 77.178208° 04/11/22 12:44 PM GMT +05:30

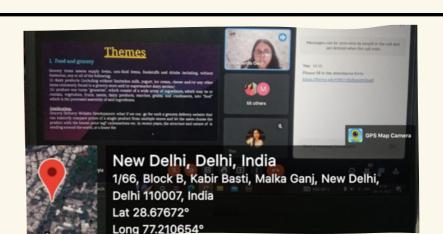
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