TECHGENIX

THE ANNUAL NEWSLETTER
2024

Issue No. 2

FROM THE PRINCIPAL'S DESK

I am delighted to announce the publication of the second edition of "Techgenix," the newsletter crafted by our talented students from the Department of Computer Science at Maitreyi College. This initiative exemplifies the creativity, dedication, and intellectual curiosity that define our academic community.

Over the past months, our students have engaged in a multitude of enriching activities, including webinars, workshops, conferences, and competitions. They have also acted a resource persons in a student development programme. These experiences not only enhance their academic knowledge but also foster a well-rounded development, preparing them for future challenges in the ever-evolving field of technology.

"Techgenix" serves as a wonderful platform for our students to demonstrate their expertise and share their innovative ideas with a broader audience. It is gratifying to see how they seamlessly blend their academic pursuits with creative expression, producing content that is both informative and inspiring.

I would like to commend the students and faculty members of the Computer Science Department for their hard work and commitment in bringing this newsletter to life. Your efforts have resulted in a publication that we can all be proud of, and I am confident that it will continue to engage and enlighten readers across our community.

Thank you for your dedication, and I wish you all continued success in your future endeavors. Let's keep pushing the boundaries of knowledge and innovation together.

Prof. HARITMA CHOPRA
Principal
(MAITREYI COLLEGE)

It is a matter of pride that team ilustrado has put in their best efforts to bring out the 2nd edition of the yearly newsletter "Techgenix" for the acedemic year 2023-2024.The newsletter,I feel will mirror the creative and innovative ideas of the students.The articles published in it, I hope will be of contemporary relevance. The newsletter will also highlight the illuminating seminars and extracurricular events that ilustrado organised to help students deepen their comprehension.

ISHA TYAGI (EDITORIAL HEAD)
(Bsc Physical Science ,3rd yr)

Welcome to the latest edition of our Department newsletter, proudly brought to you by Ilustrado, the Computer Science Department's dynamic editorial team. As the Creative Head, it has been a thrilling journey to collaborate with a dedicated group of enthusiastic students who have poured their creativity and passion into the newsletter.
This newsletter is a testament to the innovation, hard work, and spirit of our Computer Science community. Inside, you'll find a blend of insightful articles, exciting project highlights, and news about the latest developments within our department. Our goal is to keep you informed, engaged, and inspired by the incredible work and achievements of our students and faculty.
I hope you enjoy reading this edition as much as we enjoyed creating it.
Happy reading!
SHRUTI KASHYAP (CREATIVE HEAD)
(Bsc Physical Science ,3rd yr)

It's with immense pride that I witness the second edition of "Techgenix" come to life! This annual newsletter, spearheaded by the tireless efforts of Team Ilustrado, is a testament to the brilliant minds within our department. "Techgenix" isn't just a collection of articles; it's a vibrant tapestry woven with the threads of student creativity and contemporary ideas. Prepare to be not only informed but also inspired by the innovative spirit that leaps from these pages. But "Techgenix" thrives beyond the written word. It also chronicles the captivating seminars and engaging extracurricular events that Ilustrado meticulously curated to foster deeper understanding among students.

DEEPALI RAWAT (EDITORIAL HEAD)
(Bsc Physical Science ,3rd yr)

NOTES FROM EDITORS

CREATIVE HEAD
Shruti Kashyap
Bsc Physical Science
(3rd Year)

EDITORIAL HEADS
Isha Tyagi
Deepali Rawat
Bsc Physical Science
(3rd Year)

Kajal
(Bsc Physical Science ,3rd yr)

Shireen
(Bsc Physical Science ,2nd yr)

Munjal Sharma
(Bsc Physical Science ,2nd yr)

Nikita Pal
(Bsc Physical Science ,2nd yr)

Harveen
(Bsc Physical Science ,2nd yr)

Vashudha
(Bsc Physical Science ,1st yr)

Hemakshi
(Bsc Physical Science ,1st yr)

Anjali
(Bsc Physical Science ,1st yr)

Anshika
(Bsc Physical Science ,1st yr)

Ananya Lodhi
(Bsc Physical Science ,1st yr)

Neelam
(Bsc Physical Science ,1st yr)

MEET THE EDITORIAL TEAM

I.N.D.E.X

ABOUT
ILUSTRADO

Ilustrado, is a budding body of dedicated students of the Department of Computer Science, Maitreyi College, which was established in the year 2018 by a group of CS enthusiasts who were, and will always be, guided by a highly experienced, encouraging and motivating faculty.

We regularly organize seminars, competitions, events, departmental festivals, talent hunts, coding competitions, etc. so as to make a wide range of students aware of the emerging technology sector of the world through plausible, appealing and fun ways. Through such events, we try to give proper exposure and learning in terms of technology to the students.

OUR VISION

We see a country where more of the youth gets engaged in the technological sector and evolves as a remarkable asset to the country. We hope that through our efforts, the young minds turn out to be the future CS and IT professionals and leaders of the country. This is our vision. This is our motto. This is Ilustrado.

It is an immense pleasure and moment of happiness to share that the Computer Science Department is here with the 2nd edition of its annual newsletter. I am filled with extreme pride and excitement for the remarkable strides our Computer Science Department has continued to make. The past year has been a testament to the unwavering dedication and innovative spirit that defines our community.

It has been an honour and a privilege to serve as a team member in the first year to the President in the final year. Together we have accomplished great things, and I am proud of all that we have achieved in all this time. I am grateful for the opportunity to have worked with such a group of individuals, and I will always cherish the memories and experiences that we have shared together.

Kajal (PRESIDENT)
(Bsc Physical Science ,3rd yr)

Joining Ilustrado was truly a blessing in disguise for me. It has been a journey filled with excitement, new learnings, and countless memorable experiences. Starting as a member of the Graphic Designing Team in my first year of college, I had the opportunity to hone my skills and work with an incredibly talented team. This foundation paved the way for my transition to Vice President in the second year, a role that brought new challenges and responsibilities.The shift was not easy, but with the unwavering support of my fellow team members, we successfully organized a range of events including orientations, webinars, seminars, trips, and workshops. Each event was a testament to our collective effort and commitment to creating enriching experiences for our members. The society has taught me invaluable lessons in leadership, teamwork, and perseverance.I am grateful for the chance to contribute to Ilustrado and am proud of what we have achieved together. Looking ahead, I am excited for more successful events and continued growth.
Thank you for this incredible journey.

Shireen (VICE PRESIDENT)
(Bsc Physical Science ,2nd yr)

They say college is all about meeting new people, and I can proudly say I have found the best set being a part of this team. As we prepare towards the end of this term, I must tell I have had the best time of my college in Ilustrado. Being the General Secretary of the department has given me the opportunity to be a part of the department's voice, and ample amount of sense of growth and responsibility as an individual, and that which comes with being the core part of the team. It has truly been a blessing to be working with a team that is best in its own; the union, the heads, team members, and everybody else. Ilustrado is not just a department, it's a family, that I always wish to cherish and work for, anytime I am called upon.

Harveen (GENERAL SECRETARY)
(Bsc Physical Science ,2nd yr)

न रत्नमन्विष्यति मृग्यते हि तत्
 A gem does not seek its possessor; it is the seekers who discover the gem.
It is moment of pleasure and pride for the Team of Ilustrado as 2nd edition of it's annual Newsletter is here. As I step down from the post of Treasurer of Ilustrado, I feel proud to say I have grown in so many aspects being part of this community. The confidence,the people and the memories it has given me can't be described. Being around so talented,hardworking and dedicated team was an asset in it's own. What I have learnt from here will be shown at every stage I'll be. Ilustrado is going to turn many more underconfident people like me into a chatterbox.

Taniya (TREASURER)
(Bsc Physical Science ,2nd yr)

WORDS FROM UNION

DEEPFAKE TECHNOLOGY

BY: ISHA TYAGI (BSC. PHYSICAL SCIENCE-3RD YEAR)

Artificial intelligence, everyone is talking about it, from industrial leaders and researchers to policymakers and the general public . So, what is it and what made it a topic of great interest and discussion across various sectors?

The concept of AI refers to the development of intelligent machines that can do things like humans do- they can see,think, learn and make decisions just like we can.

One such AI is deepfake which is used for the creation of manipulation of digital content, typically videos. The word deepfake is derived from another form of artificial intelligence called deeplearning.It involves replacing someone's face in an existing video with the face of another person, often resulting in a highly realistic and convincing outcome.

Although deepfake technology is being extensively used, its application in commercials has gained significant attention in recent years. Let's dig deeper for a better understanding, here are some examples of deepfakes especially in the advertising industry.

Actor SRK appeared in personalized advertisements for local retailers, encouraging people to shop for festivals at their nearby stores. The campaign, created by Mondelez India for Cadbury, won several awards at the Cannes Lions International Festival in June 2022. AI technology was used to recreate Shah Rukh Khan's face and voice in each retail commercial. The details for the ads were provided by the shop owner on a microsite called notjustacadburyad.com.Around 139,000 such hyper localized ads were created in 10 days.

A few months ago, Zomato, a popular food delivery service, launched a local advertisement campaign. They used deepfake technology to make Hrithik Roshan, their brand ambassador, mention specific dishes and restaurants in different cities based on the viewer's GPS location. Similarly, PepsiCo used deepfake technology to show a younger version of their brand ambassador, Salman Khan, in a Pepsi advertisement. In another instance, a sustainable home care brand called Beco created a digital avatar of their endorser, Dia Mirza, to send real-time messages to consumers.

It is undeniable that there has been a great achievement in the world of technology. However, there are both advantages and disadvantages to it. One downside is the emergence of deepfake technology, which has made some people skeptical and even fearful of its widespread use. This is because the advancements in this technology make it difficult to tell apart what is real and what is fake. It can create serious problems such as spreading fake news, manipulating the words of politicians or celebrities, and ruining someone's life.
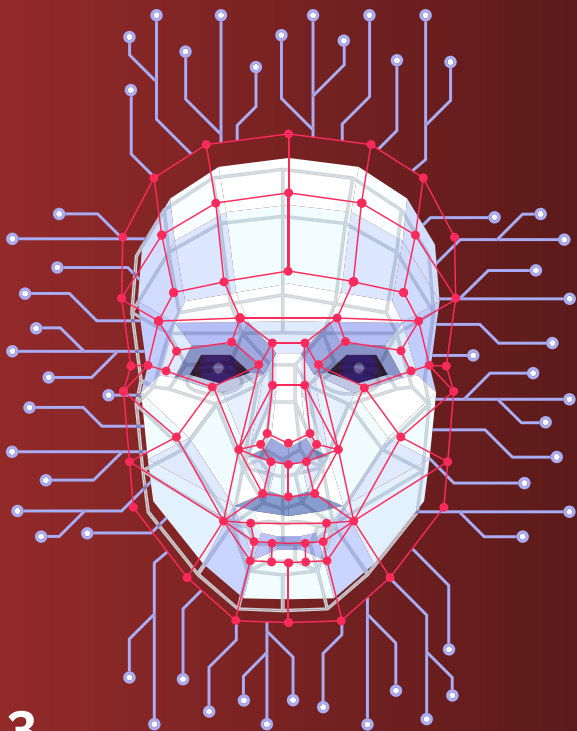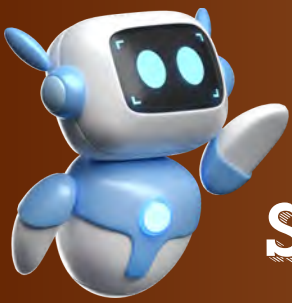
WHY MACHINES ARE SMART AND YET SO DUMB?

BY: MAULIKA SHARMA (BSC PHYSICAL SCIENCE)

1.What is 4567*678? - 3,096,426

2.What do you eat? - I haven't figured out how to eat yet.

Most people can't answer the first question in a couple of seconds but a machine can, however the second reply seems illogical; humans don't talk like this, but machines do. A bizarre thought occurred to Hans Moravec, Rodney Brooks, Marvin Minsky and others in the 1980s an AI paradox that they named Moravec's Paradox.

"It is comparatively easy to make computers exhibit adult level performance and difficult or impossible to give them the skills of a one-year-old."

Calculating a very long equation, engineering problems, maths, playing chess i.e the "hard" things are easy for a machine to do, however expressing emotions, recognizing faces, balancing, learning, perceiving - the tasks that are "easy" for humans but requires a lot of computation for a machine to handle all these well. Something that is easy for humans, is tough for a machine to do and vice-versa.

But why is it so tough for them?

First of all, what seems easy i.e the things a one-year child can do, are the results of millions of years of evolution. Humans faced different situations and evolved according to them. These basic skills can be done by everyone so we take them for granted, otherwise there's a lot of contraction of muscles just when lifting a hand. Take for example the human brain too, it has 80 billion neurons in the small processor and has the ability to light a 20-watt bulb. It took billions of years to have such a magnificent processor inside the human body.

Another reason is, we can programme the fundamental approach to solve problems, like the best moves in chess game and other complex questions in the machine because we know the set of steps to solve them but we don't know why we react in the way we do, why we have emotions, how to react in a certain situation and why we all are different.

How to see, hear, and perceive the environment around us? These are the questions for which we don't know the computational logics. That's why it becomes difficult to teach a machine these skills. We cannot make codes for them and hence, machines can't do the basic stuff. Now with the rising development of artificial intelligence and machine learning, we are trying to overcome Moravec's paradox in different ways. With the assistance of Quantum Computing, nanotechnology, etc the quality of AI's listening, hearing and vision are evolving like never before.

Features like facial recognition and image classification are examples of enhanced vision of a machine. Alexa too cannot only understand human speech but can also communicate with humans with maximum efficiency.

AI is becoming more and more advanced and engineers and scientists together are trying to overcome many hardships along this journey. There still are many things that are in need of a solution- for example a computer still can't break into google imposing a human as it can never lie to the security question of google-"are you a robot?".

AI has a long way ahead; it is a branch where there is a lot to explore and a lot to improve. But there is one hurdle we must cross before we get into the real A.I which is the Moravec's Paradox.

COVID-19 AND ITS IMPACT ON INCREASING CYBERCRIMES
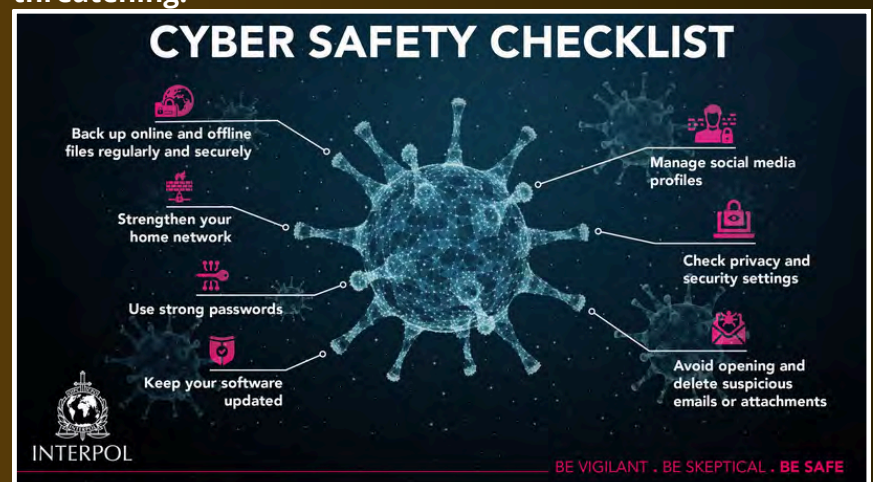
BY: SARALA (BSC. PHYSICAL SCIENCE-3RD YEAR)

This recent pandemic of COVID-19,has turned lives around the world upside down. It has definitely hit the lifestyle and livelihood of people all across the globe. The strict lockdowns that were imposed have not just caused a severe downfall in the economy, but has been a major spare time boast to everyone altogether. There has also been an increase in the cyber space utility , which has unfortunately done more bad than good for the security system of the cyber world. In other words, cyber criminals did benefit from the pandemic.

The virus forced us to stay secluded and work remotely. Students and professionals did witness a major shift in the workculture from offline to online mode. Given the need to maintain social distancing and to get maximum work done online, the cyberspace did see a huge surge of personal data online which unfortunately went victimized under the jaws of cyber crime. Thus, Coronavirus did pose a potential threat to the cyber security system worldwide.

The term cyber crime is self explainatory. It is a criminal activity that either targets or uses a computer network or a networked device. The main intent is profit, while other reasons behind cybercrimes may go wide ranging. As the general public got perplexed during the pandemic, the criminals did take advantage of the situation. Spreading of fake news,internet frauds and phishing did see a raise. The may of 2020 witnessed an increase in the corona virus related cyber attacks from just a few hundred to over five thousand a day. The FBI reports also show that cyber crimes have increased by an alarming 300%. The number of attacks did skyrocket indeed.

With the ongoing revolution of digitalization and paperless transactions, many socially and economically eminent institutes like banks and hospitals have started handling huge amount of important and sensitive data online. Given the extent of risks and chaos that the general public might undergo once such data is leaked or misused,we see that most hackers did take an enormous advantage of the fact and targeted the websites of hospitals and banks. Healthcare organizations and banks are the target of 30% of all cyber attacks. In both these sectors we see an increase in the number of hackers by 240%. An example of this type of cyber attack on hospitals and banks includes the name of Czech Republic's Bruno hospital. Here, so as to stop the attack employees were forced to shut down the entire IT network, postpone urgent surgical interventions and redirect seriously ill patients to other nearby hospitals. The severity of such data leaks may sometimes be life threatening.

CYBER SAFETY CHECKLIST

Back up online and offline files regularly and securely

Strengthen your home network

Use strong passwords

Keep your software updated

Manage social media profiles

Check privacy and security settings

Avoid opening and delete suspicious emails or attachments

INTERPOL

BE VIGILANT . BE SKEPTICAL . BE SAFE

Cyber crimes can be of various types . Some of them include ransomware attacks and phishing. We notice that phishing in which criminals victimize the public through mails, has increased by atleast three times since 2019. No doubt phishing has always been on raise, but the numbers have never been so large so far. The situation is definitely a huge matter of concern.

The hackers have also kept an eye on the funds being transferred to business owners as a support to their incurred loss during the pandemic. For instance, in the US alone,there have been one hundred thousand identity theft from people whose business or personal information was used by fraudsters to seize governmental funding or loans. This incentive to the vulnurables too has failed to escape the hackers' crooked eyes.

Talking of the victims of cyber crime, its not just the banks and hospitals and business owners that were targeted by the cyber criminals, but rather a huge part of the general public with the elderly and the innocent with lesser awareness on the cyber space went victimized too. According to the FEDERAL TRADE COMISSION, one in five people have lost money as a result of cyber crime and the losses are estimated at $3.3 billion. The biggest losses have been recorded by online investments and online shopping frauds,totalling over $600 million. So, covid has not just taken lives, it has snatched the sanity of the human brains, it has had devasting effects not just on the economy and the livelihood of the population of this planet, rather the bread and butter of the socially dependent people went on a toss too. The cyberspace utility saw a raise with a decline in the security and an increase in frauds online. Ways of staying safe do exist, staying aware becomes crucial as the loopholes happen to catch the hackers eyes too quick despite being taken care of. Parents need to be vigilant while their kids surf online, emails from unsophisticated sources shouldn't be left unblocked, unknown links from unauthentic sites shouldn't be clicked upon, so on and so forth. Taking precautions when it comes to cyberspace utility is highly emphasized so as to avoid further complications with ones personal data.

WEB MINING

BY: MAHIMA (BSC PHYSICAL SCIENCE)

Web is a collection of inter-related files on one or more web servers. Web mining is one of the mining technologies, which applies data mining techniques in large amount of web data to improve the web services. It is useful to e-commerce website and e-services, it retrieve useful and interesting patterns from large datasets.

The purpose of web mining is discovering useful information from the world wide web. It includes application level knowledge, data engineering with mathematical modules like statistics and probability.

Web usage mining, web content mining and web structure mining are the three different divisions of web mining. It helps to determine the user access of web pages.

Improvement of search engines by classifying web documents, web searching like Google, Yahoo, landing page optimization in particular website and e-service are the some application of web mining. The tools required in web mining are scrapy, page rank and Apache logs.

The main purpose of web mining is used to predict user behaviour and discover useful information. We can say that web mining has a significant role in today's technical world where there is a massive amount of information is present, it helps us to get the thing out, which we want.

MATURITY

Growing up with time
Stop looking back
The younger one looking up to future
Eyes full of expectations,dreams , curiosity and innocence
Silly antics everyone laughed at
Without any fear or unshed tear
How you grow up
How fast
Inside the mask there reside the silly child
Still happy, guiding light in dark
Ray of happiness in gloomy night
Be mature people say
What does it means
To act like grown up
To talk, to walk to behave
Or to have interest that keep within the society
To walk with crowd rather
Reverberating their words and actions
Acting on their validation
Seeking praises
Of whom those who bever matter
No it don't maturity doesn't need to be shown
Being mature is
To know reality of world
Everything ain't visible with your rose tinted glass
Numerous facades,hidden intentions
Holding pain,scars and emotions inside
Worrying about future and moving forward with dedication
See people pulling you down
World just keep moving around
Being enough to stand in Storm
Enough to fight back
Wider horizon different perspective
Where no validation is needed
Accepting oneself like
Whom inner child is proud of and is looking up to..

By Aaditri Saraswat
(Bsc Physical Science, 3rd Year)
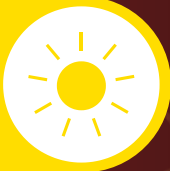
A DAY ☀ IN LIFE

In the end,
The time escapes like sand in hand..
It's just a question
Left deep hidden inside my soul
That swallows me a whole
Who am I?
I am daughter, a sister, a wife , a friend
This is what everyone see
But I am me
Like an illusion , it is
Truth is what is amiss

Gently touching her reflection in the mirror .. She says
We are same
you are me, and i am you
Features same but I don't know
Do you also live in the roles
Or you really have a goal
Do you really have an identity
Or living behind shadows in reality
Sitting near window,
she saw children playing in the garden
, innocence dripping out of their faces,
teenagers walking on the footpath
with the dream she hasn't seen for ages
Birds flying back to their Adobe
After fulfilling their hunger.
Aged ones walking with sticks
Laughing at kid's antics
That they may have played when they were younger
Adults coming from their offices
With tension, frown or anger
But they smile
when they hear chatters of their family members
She thoughts--
'How busy the world is
Hustle bustle here and there

Labyrinth emotions , dreams and expectations
Playing our part as an artist in the theatre
She sees her shadow
Compare it with her reflection
In the end laughs at her actions'
She says
'How in front of you (you - here she is referring to
herself- shadow and reflection)
Where I shed all my acts
The obedient daughter, a lovely sister
A beloved , or an understanding friend
Where I see bare me
Without any makeup or invisible veil
In the mid of complex emotions that I feel
There is place
Away from world
Where I face only me
Separated by this partition
Where I can only hear my own confessions
Pains , complains, dreams or my pleas. '
Dancing a bit
Jumping on her bed
That teddy bear in her hand
Playing songs of her favorite band
She stops
Stares at the ceiling
White it was with distinct patches
Of plaster coming out during rain
Visible the imperfection with naked eyes
She knows nothing actually really match
Everything with different backgrounds.
Or roles, morals, ethics, or day to day goals
She again think of herself -
A soul hidden beneath layers......
One which doesn't shares
Thoughts and emotion
A true face behind numerous masks
About which no one asks
A fragile doll behind a strong one
Like sometimes a daughter in shadows of son

By Aaditri Saraswat
(Bsc Physical Science, 3rd Year)

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FARE WELL 2023

Canva Stories
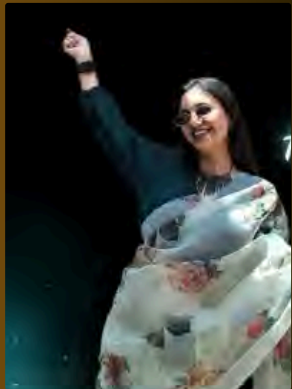
The farewell event was a resounding success, filled with laughter, camaraderie, and a sense of togetherness. Our seniors, true to their spirited nature, made the evening unforgettable with their vibrant performances on the dance floor. It was a sight to behold as they showcased their moves and spread infectious energy throughout the room. It was a beautiful testament to the friendships and connections that have blossomed during our time together, nurturing an environment of support and inspiration.

In addition to the joyous celebrations, interactive games were organized to engage everyone and create an atmosphere of fun and friendly competition. The games brought out the competitive spirit in all of us and provided a platform for laughter and bonding. It was heartwarming to witness the seniors actively participating and encouraging their juniors, fostering a sense of unity and support within our department. Through the rounds of game we found our "Miss Farewell" Miss Ankita Pant captivating hearts with every step. We had one more title, "Miss Well Dressed", a vision of elegance and style which was well deserved by Miss Tanishka Sharma.

The occasion provided an opportunity for us to savor not only the flavors of the food but also the memories we have shared with our departing seniors. The shared meals have always been an important part of our department's culture, and this farewell gathering was no exception. The delectable food spread was a gastronomic delight, and everyone relished the diverse culinary treats.

At the end our department's teachers came and showered the batch'23 with words of affirmation and positivity towards their bright future and a reminder to stay in touch.

RIDDLES ?

_____
Through my window, you can travel far, yet physically, you stay where you are.
What am I, your virtual car?

_____
Not just a simple specter, I craft worlds unreal; in me, you'll find fantasy, a virtual realm to feel. Who am I?

_____
I connect you to worlds unseen, Without me, where would you have been? What am I, invisible yet keen?

_____
I'm a machine with letters but no words, and numbers but no calculations. What am I ?

_____
I'm the library that you can't see; ask me anything, I'll fetch it for free. What am I?

_____
My domain vast, inventions I spawn; an era of digital, where dawn meets new dawn. What am I?

_____
Breaking codes but not for fun, I enter where I shouldn't run. Who am I?

_____
I lay on your lap, but I am no pet; open me up, and the world is set. What am I?

_____
I can mimic human tasks with gears and code, serve industries, and sometimes hit the road.

_____
I think, learn, and create, without ever taking a breath. I am born from human minds, but I can't experience death. Who am I?

GANESH CHATURTHI CELEBRATION

To seek the blessings of Lord Ganesha, Ganesh Chaturthi was celebrated by the Department of Computer Science, Maitreyi College, University of Delhi, in September 2023. This year's Ganesh Chaturthi celebration on our campus was truly exceptional, marked by a unique style and fervour that made it memorable even in its second year. The celebration wouldn't have been this successful without the valuable guidance and assistance of the faculty members of the department, Dr Jyotsna Talreja Wassan, Dr Manju Bhardwaj, Dr Shikha Badhani, and Dr Veena Ghuriani.

The most special part of the celebration was the eco-friendly idol of lord Ganesha, made by the students. The idol was created using natural clay and organic colours. It was a three-day celebration that involves the installation of the idol on day 1, the idol was adorned with fresh flowers and offered fruits and other natural items as a symbol of devotion, followed by Arti(ritualistic prayer), Prasad distribution and other rituals on all three days, by the teachers of the department. On the final day of the celebration, a grand Visarjan ceremony took place. The idol of Bappa was placed in a water tank within the college premises, and students and faculty gathered to express their gratitude and seek blessings from Lord Ganesha. Everyone waited till the idol was fully dissolved. The chant "Ganpati Bappa Morya" filled the air as the department bid farewell and prayed for the deity's early return the following year.

Our eco-friendly handmade Ganpati Bappa by our students

BRAINIAC BANTER

D	O	W	N	L	O	A	D	I	N	G	I	I	U	T
L	M	O	A	P	R	O	I	P	Z	T	V	V	W	K
K	P	V	Z	J	E	G	Y	S	C	D	A	O	W	D
A	T	W	Z	K	S	T	J	E	Q	V	U	V	Y	R
S	J	X	H	P	W	G	H	U	B	W	H	U	V	A
M	H	T	I	R	O	G	L	A	B	A	C	U	S	O
C	E	Q	D	V	R	D	N	B	U	M	B	N	P	B
L	O	L	Q	H	B	H	Z	I	A	I	S	R	P	R
I	C	M	T	T	B	U	T	R	G	U	X	G	T	E
P	D	M	P	G	E	R	A	W	R	G	T	S	Q	H
B	L	W	Z	I	W	P	M	I	H	V	U	G	D	T
O	M	M	H	P	L	L	V	A	D	G	T	B	C	O
A	J	B	O	Q	P	E	I	T	O	H	E	N	E	M
R	E	C	B	R	Y	V	R	Y	T	K	W	T	W	D
D	G	N	I	F	O	O	P	S	G	A	J	E	U	J

Clues:

1. The standard markup language for creating web applications.
2. A finite set of instructions carried out in a specific order to perform a particular task.
3. The process of finding errors and fixing them within a program is called
4. Name the computer program which when executed, replicates itself and inserts its code.
5. The largest and most important circuit board in the computer
6. First calculating device
7. A program that translates high-level language to a machine-level language is called
8. Data that is copied from an application is stored in
9. Common name for the crime of stealing passwords
10. What kind of memory is both static and non-volatile
11. Google Chrome, firefox, safari, Microsoft Internet Explorer
12. Which supercomputer is developed by Indian scientist
13. Process of transferring files from the internet to your computer

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QUIZ TIME

THE QUIZ GAUNTLET

1. HOW MANY BITS MAKE A BYTE?

2. THE FIRST COMPUTER VIRUS WAS KNOWN AS?

3. WHAT IS THE PROGRAMMING LANGUAGE DEVELOPED BY JAMES GOSLING AT SUN MICROSYSTEMS AND NAMED AFTER THE TYPE OF COFFEE FROM INDONESIA?

4. WHAT DELICIOUS COMPUTER TERM, INSPIRED BY A SMALL PIECE OF INFORMATION, DID WEB BROWSER PROGRAMMER LOU MONTULLI INVENT TO REFER TO DATA SENT FROM THE BROWSER TO THE WEB SERVER?

5.IN WHICH YEAR WAS THE 'C' PROGRAMMING DEVELOPED?

6. LINUX IS AN EXAMPLE OF?

7. WHO IS CLASSIFIED AS A WHITE HAT OR BLACK HAT ?

8. ASCII HAS HOW MANY CODES?

9. A FACILITY THAT ALLOWS THE USER TO SPEAK INTO A SPECIAL DEVICE WHILE TYPING A LETTER USING COMPUTER IS CALLED

10. CAREER GUIDANCE , EMPLOYMENT ONLINE , EXAMINATION RESULTS ONLINE ALL ARE WHAT SERVICES??

11. THE INDIVIDUAL SECTIONS THAT THE SCREEN IS DIVIDED INTO ARE CALLED?

12. 'THINK DIFFERENT' WAS THE TAGLINE OF WHICH TECH BRAND FROM 1997 TO 2000?

13. AMAZON WAS FOUNDED IN WHICH US STATE?

14. A CELL PHONE WHICH DOESN'T HAVE TO BE USED WITH A PARTICULAR SIM IS KNOWN AS WHAT?

1.8 bits 2.Creeper Program 3.Java 4.Cookie 5.1972 6.System software 7.Hackers 8.256 9.Dictaphone 10.Web based services 11.Frames 12.Apple 13. Washington 14.Unlocked

Internships & Achievements

GYANSI (FIRST YEAR)

-Interned and been a team manager at younity
-Got first prize at "Young Voters Awereness Event" organised by election comission of India.

VASHUDHA(FIRST YEAR)

-Interned at logyify India as an HR intern with the stipend of 12000 for 2 months

SNEHA(SECOND YEAR)

-Interned at Social Parindee Digital Marketing Agency as Social Media Marketing intern

MANISHA (THIRD YEAR)

-Interned at Social Parindee Digital Marketing Agency as Social Media Marketing intern
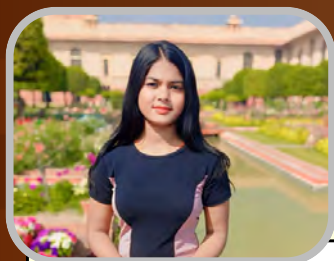
VANSHIKA (THIRD YEAR)

-Gained Certificate for the course in ICT tools and applications

BHAVYA (THIRD YEAR)

-Interned as business analyst at Reckonversations
-Wrote a paper titled " Reinforcement learning in social robotics, which wasselected in EAI ISCIML journal and IOT journal.
-Completed a certified course from coursera on google advertisement and web development

Internships & Achievements

KAJAL(THIRD YEAR)

--Campus ambassador internship program for 2 weeks at The Right Guru -HR intern for 3 months at SIMMI foundation -SMO intern for 5 months at Akrati jewels Inc -Selected under Prime Minister's Scheme under national defence fund for 2 years

ISHA TYAGI (THIRD YEAR)

-Offered Artificial intelligence and machine learning volunteership at Earth5R

SHRUTI (THIRD YEAR)

Interned as a Social Media Intern at Younity.
Interned as a Campus Ambassador at IIT delhi.
Placed in Softage Information Technology limited from College Placement Drive.
Instructor and Resource person of a short term course on Canva organised by Ilustrado.

ANAMIKA (THIRD YEAR)

-Gained Certificate for the course in ICT tools and applications

RUCHIKA (THIRD YEAR)

-Achieved NCC 'C' certificate
-Took part in Summer Internship Programme organized by maitreyi college topic - "analysis of toxic social media text using deep learning techniques"
-Got the opportunity to learn about "Biodiversity conservation planning" conducted by ISRO through college

JYOTI (THIRD YEAR)

-Placed at Accenture in College Placement Drive 2023 as an App Development Associate

THE ARTFUL ESCAPE
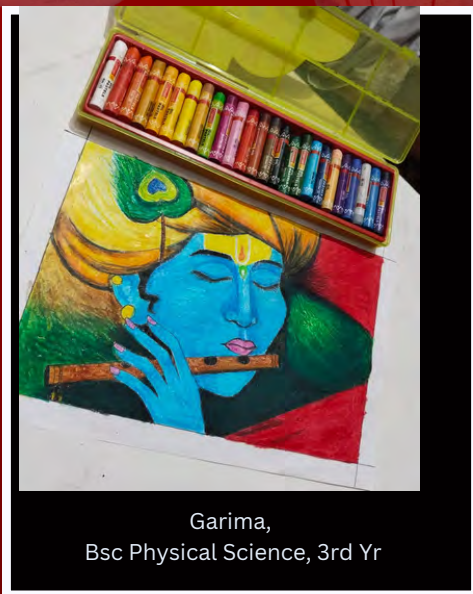
Garima,
Bsc Physical Science, 3rd Yr

Ankita Pant,
Bsc Physical Science, Batch 2023
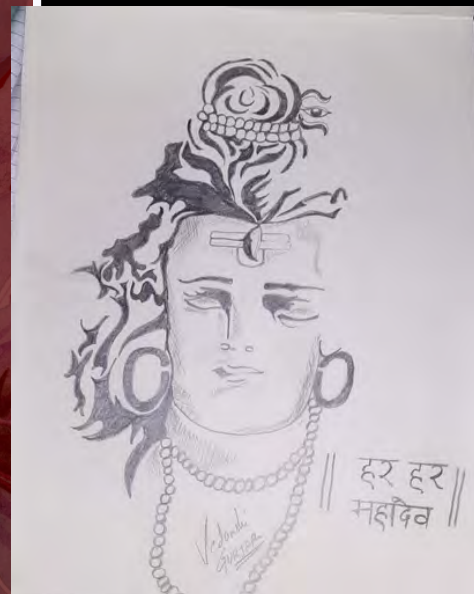
Vedanshi,
Bsc Physical Science, 3rd Yr

Garima,
Bsc Physical Science, 3rd Yr
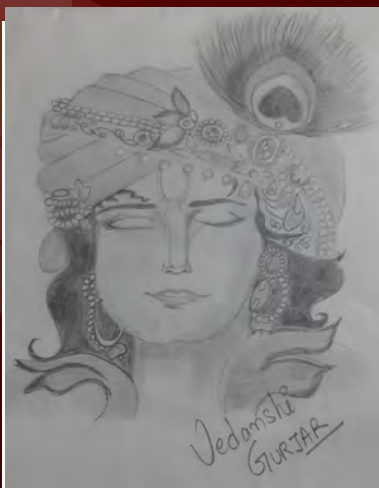
Vanshica,
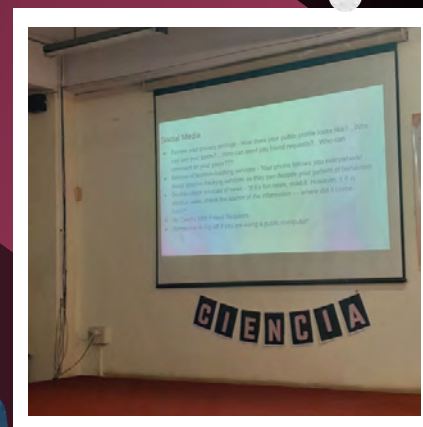Bsc Physical Science, Batch 2023

Vedanshi,
Bsc Physical Science, 3rd Yr

Garima,
Bsc Physical Science, 3rd Yr

Vanshica,
Bsc Physical Science, Batch 2023
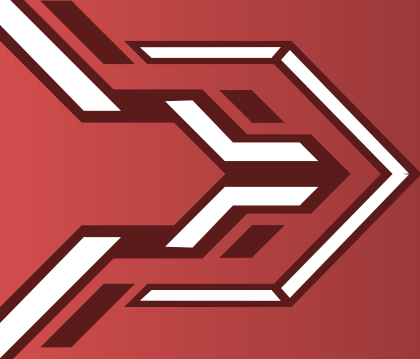
Vanshica,
Bsc Physical Science, Batch 2023

CIENCIA '23

The annual departmental fest of ilustrado was conducted successfully with all pomp and glory. Various activities conducted under this include a seminar about staying safe and secure in the digital world,cd painting competition,tech tambola and treasure hunt. Students from all across the university of delhi took an active part in these and made the event a grand success.
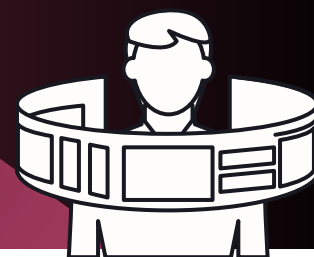
CIENCIA

The annual departmental fest of ilustrado was conducted successfully with all pomp and glory . Ciencia 2024, the highly anticipated departmental fest of Ilustrado, the Computer Science Department of Maitreyi College, was a resounding success. Bringing together students, professionals, and enthusiasts from across the region, the fest celebrated the spirit of innovation, knowledge, and creativity. The event featured a range of activities designed to engage participants in various aspects of computer science and beyond, making it a hit among attendees.

This event drew in competitive coders from various colleges, all eager to demonstrate their expertise and compete for the top spot. The winners for this event were the KIRORIANS (kirorimal college) The intense and dynamic environment of the Algorithm Arena highlighted the importance of coding proficiency in the field of computer science.

One of the highlights of Ciencia 2024 was the Tech Talk with Dr. Sachin Kumar, a renowned expert in Artificial Intelligence. Dr. Kumar's insightful session on the advancements and future prospects of AI captivated the audience, providing them with valuable knowledge and inspiration.The Algorithm Arena was another major attraction, challenging participants with a coding quiz competition that tested their problem-solving skills and algorithmic prowess and the mazor coding skills.

Adding a creative twist to the fest, the Spectacular Spotlight showcased the diverse talents of students. This talent show provided a platform for participants to exhibit their skills in music, dance, drama,poetry and more, reflecting the vibrant and multifaceted nature of the student community.
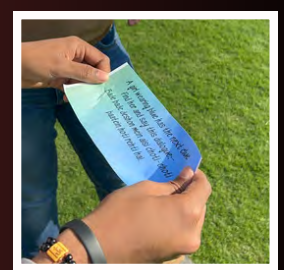
Vaishnavi Dubey from Maitreyi College clinched the coveted first prize with her exceptional performance that left the audience in awe. Ashi Galhot from Swami Shradhanand College secured the second prize. Phalguni, also from Maitreyi College, won the third prize, demonstrating remarkable talent and a commendable effort.

The Cipher Cell, a thrilling treasure hunt game, brought an element of adventure and teamwork to Ciencia 2024. Participants navigated through a series of cryptic clues and puzzles, testing their logical thinking and collaboration about the game. The team Titans emerged as the champions of the Treasure Hunt Game.

Ciencia 2024 witnessed an impressive turnout, with participants from different colleges contributing to the lively and competitive atmosphere. The fest's success was evident in the enthusiastic participation and the positive feedback from attendees, solidifying its reputation as a premier event in the academic calendar.

AVGAAHAN
2024

Maitreyi College successfully organized its annual interdisciplinary academic fest, Avgaahan 2024, held from January 25th to March 1st, 2024.The fest featured a wide range of events and activities designed to foster academic excellence, creativity, and collaboration among students from various disciplines.

The Computer Science Department of Maitreyi College, "Ilustrado," played a pivotal role in Avgaahan 2024, conducting two major events that attracted participants from different colleges and universities across the region.

1. TechWiz: Online Quiz

The preliminary round of TechWiz, an online quiz competition, tested participants on their knowledge in computer science and general technology. The event saw enthusiastic participation and set the stage for the upcoming main events of the fest.

2. Code-a-Thon: Coding and Website Development Competition

The final round of Code-a-Thon was the highlight of the Computer Science Department's contributions. It was a coding and website development competition that challenged participants to demonstrate their technical skills, creativity, and problem-solving abilities. The competition was fierce, with students showcasing innovative solutions and impressive coding prowess.

Avgaahan 2024 witnessed participation from students of various colleges and universities, making it a melting pot of ideas and talent. The diverse participation contributed to the fest's dynamic atmosphere and ensured a high level of competition.

The winners of the TechWiz quiz and Code-a-Thon competitions were awarded cash prizes in recognition of their outstanding performance. These awards were a testament to their hard work, knowledge, and innovative thinking.

Avgaahan 2024 was a resounding success, thanks to the dedication and efforts of the organizing committee, participants, and faculty members. The interdisciplinary nature of the fest provided a platform for students to explore new areas, collaborate across disciplines, and celebrate academic excellence. The events organized by the Computer Science Department, particularly TechWiz and Code-a-Thon, were instrumental in the fest's success, highlighting the importance of technology and innovation in today's academic landscape.

Maitreyi College looks forward to continuing this tradition of excellence and anticipates an even more successful Avgaahan in the coming years.
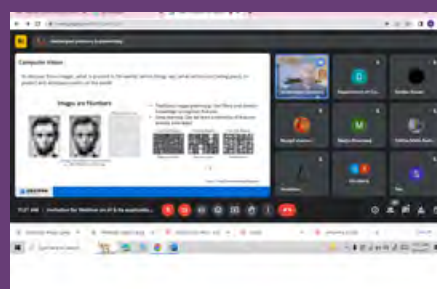
WEBNARS

AI Driven Technology in Gait Rehabilitation, Monitoring, And Self – Management

Developmental Robotics For Language Learning, Trust And Theory Of Mind

Artificial Intelligence And It's Applications

SEMINARS


Digital Marketing

Safe And Unsafe Places of Cyber Space

Artificial Intelligence

THE CANVA WORKSHOP

The aim of organising this workshop was to develop the designing skills of students using Canva. It was organised under the Student Development Program. The students were taught about the basics of Canva including creating designs, using templates and adding elements like text and images. During the 8 days of the workshop, they were provided with Knowledge about Animations - Custom Animation, - Flyers, posters, Instagram posts, and different effects like Shadow, transparency of text, etc. They were also taught about product advertisements and how to make it better. At the end of the workshop, some activities were given as an assignment task to Students. This workshop was led by students of the Computer Science department as instructors (Shruti Kashyap and Isha Tyagi from 3rd year) and Volunteers from the second year. On the last day of the workshop, an assessment was held to display the learnings throughout the workshop period. The assessment consisted of a product advertisement with the rules provided to the students.
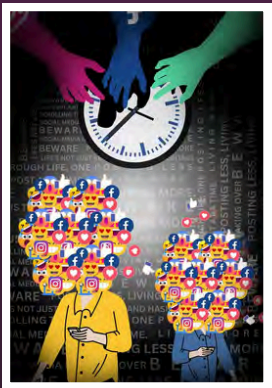
Bon Adieu '24

The Computer Science Department of Maitreyi college bid a heartfelt farewell to its graduating students on May 9th during the "Bon Adieu" event. This memorable occasion was dedicated to celebrating the achievements and contributions of the departing class while reflecting on their journey within the department. Faculty members and students gathered to Honor the graduates.

To ensure all the budding stars felt included, appreciated, and loved, the team organized a series of engaging games. The activities selected aimed to create a lively, warm, and memorable atmosphere. The performances by the seniors at their farewell program were a powerful and emotional testament to their journey, growth, and the bonds they have formed.

These activities not only provided entertainment but also facilitated deeper connections, highlighted shared experiences, and ensured everyone felt valued and included.

Bon Adieu '24

The performances by team members, including solo acts by Harveen and Ridhima pant , duet by Taniya and vashudha / Munjal and Deepa , and group dance by Anjali and the group and the solo singing performance by Priyanshi were a testament to their talent, dedication, and appreciation for the graduating seniors.On the day of the farewell, the seniors received surprise video messages from their predecessors. These unexpected messages added a special touch to the event, making it even more memorable and emotional.

The farewell continued with a cake-cutting ceremony, followed by a big surprise concert by the famous singer Arnav Raval, which made the graduating students feel truly emotional and loved.
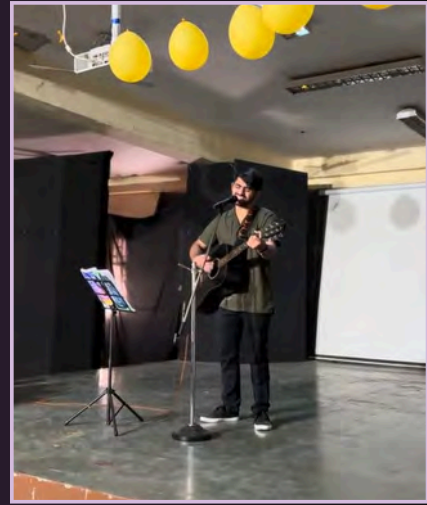
The end of the farewell ceremony commenced with a sense of nostalgia as seniors were bestowed with a title that encapsulated their personality and achievements. Through the round of games and whole performance department found their "Miss Farewell" Miss Anamika Sharma, adding to that team awarded the title of "Madam President" to ilustrado's esteemed president Miss Kajal, moving ahead team had "Miss Allrounder" which was given to very enthusiastic Miss Isha Tyagi , one more blissful title was " Miss Perfectionist" which was given to Miss Shruti Kashyap, another compulsory title was "Miss Academia" which was given to Miss Vishwa Bharti , last two titles for the day was " Miss life of the party" and "Miss social butterfly" and those were presented to Miss Bhavya Singh and Miss Jyoti Kumari respectively.

Title WINNERS

Alongside the titles, the graduating students were presented with graduation caps, symbolizing the completion of their academic journey and the beginning of new opportunities. In addition to titles and graduation caps, seniors were presented with souvenirs and batches commemorating their time at the institution. These tokens served as tangible reminders of the memories shared, friendships forged, and lessons learned during their academic year

On August 18, 2023, the Computer Science Department of Maitreyi College hosted a vibrant event, "Department Daze: Ilustrado," to warmly welcome its new students. The event aimed to create an inviting atmosphere and integrate the freshers into the department and college community.

The festivities kicked off with a traditional Ganesh Vandana, seeking Lord Ganesh's blessings for a successful academic year ahead. This auspicious start set a positive tone for the day. Dr. Manju Bhardwaj then delivered a heartfelt welcome address, emphasizing the importance of the event in fostering a sense of belonging among new students.

Faculty members conducted informative sessions on various topics, including the department's history, academic programs, and research opportunities. These sessions not only acquainted the freshers with the department's legacy but also inspired them to explore and innovate within the field. Insights into emerging trends in computer science were shared, highlighting the future of the discipline. Ms. Kajal, President of Ilustrado, gave a compelling presentation that provided an overview of the department and its achievements.


To break the ice and encourage interaction among students, several engaging activities were organized. These included quizzes and a meme-making competition, which facilitated connections and friendships among the participants. The creative and humorous entries in the meme-making competition were a highlight, with Peena Shukla emerging as the winner.

The event's pinnacle was the TechX-Talk on "Emerging Technologies and Trends in Computer Science," delivered by Dr. Rajan Gupta and his team. Dr. Rajan, who heads the Research & Analytics Division at Analyttica Datalab Inc., captivated the audience with his insights into AI, machine learning, and data science. His talk was both enlightening and motivating, providing students with a clear vision of the field's future.

To further acquaint the freshers with their new environment, a guided tour of the department's facilities, labs, and classrooms was organized. This tour showcased the department's state-of-the-art equipment and resources, giving students a glimpse into the exciting academic journey that lay ahead.

"Department Daze: Ilustrado" was a resounding success, thanks to the efforts of the faculty, senior students, and organizers. The event not only made the new students feel welcomed but also set a positive and enthusiastic tone for their academic journey at Maitreyi College. The department looks forward to many more such enriching experiences in the future.
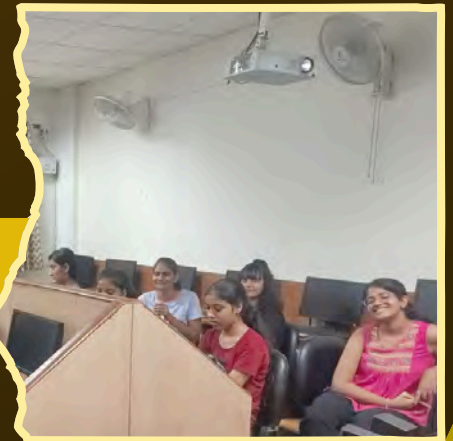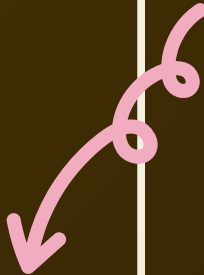
ORIENTAION 2023

ECO
E-WASTE COLLECTION DRIVE

Ilustrado, the Computer Science Department of Maitreyi College organised an E-Waste Collection Drive aimed at promoting responsible disposal of electronic waste (e-waste) within the college community. The drive encouraged students, faculty, and other members to contribute by donating various types of old electronic items, including broken laptops, earphones, remotes, and other gadgets, which would be sent for recycling.Prior to the event, the department conducted an awareness campaign to educate participants about the importance of proper e-waste disposal and its environmental impact. This campaign utilised posters, social media announcements, and offline campaigning on the grounds of college as well to reach out to the college community. The drive continued for around 10 days, and participants kept donating items along the duration.

THE LASTING IMPACT

It is really heart warming to see the second edition of Techgenix. The effort put up by the complete editorial team is commendable. This newsletter highlights the creative endeavour of our students, who have put together inspiring articles and wonderful art work. I hope this publication simulates the minds of young readers.

Best wishes

~Dr. Veena Ghuriani

Welcome to the latest edition of our student-led Computer Science Newsletter Techgenix! I am thrilled to see the enthusiasm and dedication of the students in exploring the ever-evolving world of technology. Your curiosity and passion for learning are truly inspiring, and I am proud to support you on this exciting journey. This newsletter is packed with fascinating insights into the latest trends and breakthroughs in computer science. Keep pushing the boundaries and challenging yourselves—you are the future leaders of this field!

~Dr. Shikha Badhani

THE DEPARTMENT OF COMPUTER SCIENCE

BATCH'24

BATCH'26

BATCH'27

Sources:
- *Canva.com*
- *https://images.app.goo.gl/9yBsCWewkBVsuWx3A*
- *https://www.google.com/imgres?imgurl=https%3A%2F%2Fwww.interpol.int%2Fvar%2Finterpol%2Fstorage%2Fimages%2F_aliases%2Fgallery%2F1%2F0%2F3%2F0%2F230301-1-eng-GB%2FCOVID19_Infographics_mrt20_0211.jpg&tbnid=18VRdECgnrxZrM&vet=1&imgrefurl=https%3A%2F%2Fwww.interpol.int%2FCrimes%2FCybercrime%2FCOVID-19-cyberthreats&docid=1ua8FDPQcn4qXM&w=1024&h=676&hl=en-IN&source=sh%2Fx%2Fim%2Fm1%2F4&kgs=c2593065f59ea909&shem=abme%2Cssic%2Ctrie*
- *https://www.includehelp.com*
- *https://www.watercoolertrivia.com/trivia-questions/technology-trivia-questions*
- *https://riddlesdigest.com/technology-riddles/*
- *https://images.app.goo.gl/9yBsCWewkBVsuWx3A*