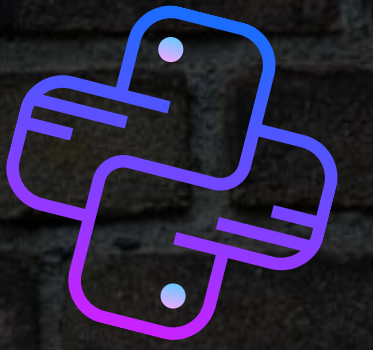




Departmental



OUTLET



COMPUTER SCIENCE



COMPIZEN

2021-2022

MAGAZINE



EXUBERANZA



THE FIRST EDITION





“Two things are infinite: the universe and human stupidity; and I'm not sure about the universe.”

— Albert Einstein



Meet our team



Dr. Monika Bhatnagar
Faculty Co-ordinator



Goldi Jarbais
Faculty Co-ordinator



Pranav Tiwari



Paras Billore
Designer



Pallavi



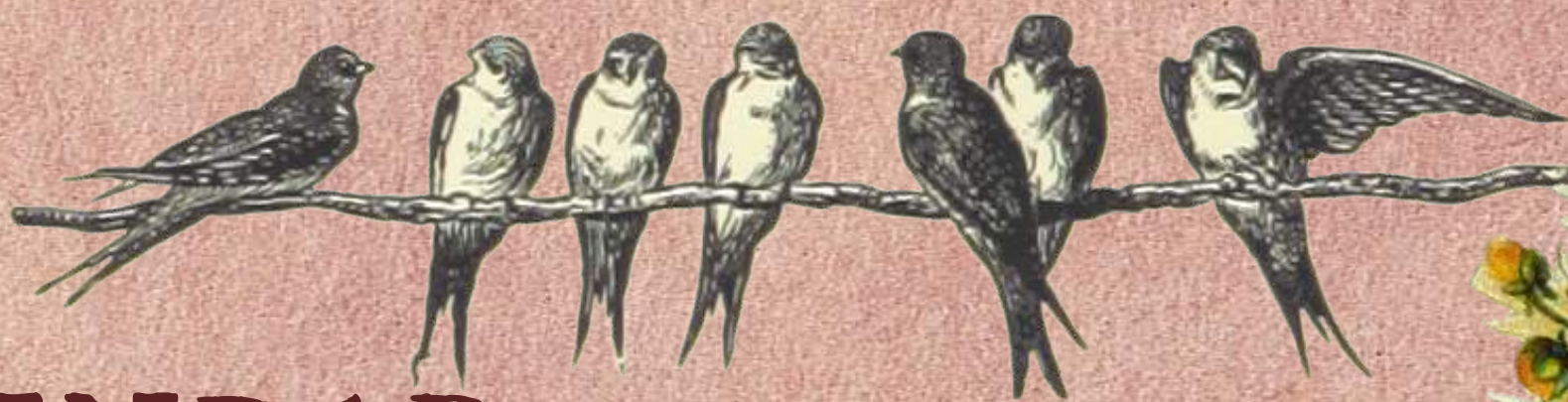
Reshu Waghmare



Shivam Kumar

CALENDAR

2022



JANUARY

SUN	MON	TUE	WED	THU	FRI	SAT
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
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30	31					

FEBRUARY

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27	28					

MARCH

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APRIL

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MAY

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JUNE

SUN	MON	TUE	WED	THU	FRI	SAT
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JULY

SUN	MON	TUE	WED	THU	FRI	SAT
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AUGUST

SUN	MON	TUE	WED	THU	FRI	SAT
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SEPTEMBER

SUN	MON	TUE	WED	THU	FRI	SAT
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OCTOBER

SUN	MON	TUE	WED	THU	FRI	SAT
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30	31					

NOVEMBER

SUN	MON	TUE	WED	THU	FRI	SAT
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DECEMBER

SUN	MON	TUE	WED	THU	FRI	SAT
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25	26	27	28	29	30	31



Director's MESSAGE

A departmental magazine is an eloquent way to represent the heart and mind of a department. It gives me immense pleasure to congratulate the Department of Computer Science and Engineering for the release of their half yearly magazine "Compizen 22".



I am sure that the magazine will not only bring the glimpse of the department but will also benefit the students with the knowledge provided through the articles and give the pleasure through arts and literary content.

I once again congratulate the team of "Compizen 22" for its outstanding work.

Dr. Rajesh K. Shukla
Director , OIST

HOD'S MESSAGE

Welcome to the Department of Computer Science and Engineering. I am happy 'that you have chosen to find out more about our department.



We recognized that this magazine is designed for the wide range of students who often seek specific information. Given this, we had compiled a set of useful information. I hope you will find the information helpful. We always appreciate your input as to how we might make the materials more informative and enlightening.

Dr. Shrikant Zade
HOD ,Computer Science & Engineering



ORIENTAL INSTITUTE OF SCIENCE & TECHNOLOGY,
BHOPAL

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

VISION

To produce technically and ethically competent graduates, fulfilling the needs of industry standards for socio-economical development of the nation.

MISSION

- To build strong, teaching, learning and ethical environment for imparting quality education.
- To provide an environment to enhance ethics, analytics, innovations, leadership capabilities and team spirit for serving industry, higher education and entrepreneurship.
- To develop industry institute interaction program and provide exposure to R&D to bridge the gap between theory and practical learning.



**ORIENTAL INSTITUTE OF SCIENCE & TECHNOLOGY,
BHOPAL**

**DEPARTMENT OF COMPUTER
SCIENCE & ENGINEERING**

PROGRAM EDUCATIONAL OBJECTIVE

- Able to apply concepts of mathematics, science, hardware and software aspects of computing to Computer Science & Engineering.
- Able to design and develop interdisciplinary and innovative hardware and software solutions.
- Able to inculcate effective communication skills, team work, ethics, leadership in preparation for a successful career in government, academia, industry and R & D organizations..



hi...

Engineers

• C



C is a general-purpose, procedural computer programming language supporting structured programming, lexical variable scope, and recursion, with a static type system. By design, C provides constructs that map efficiently to typical machine instructions. It has found lasting use in applications previously coded in assembly language. Such applications include operating systems and various application software for computer architectures that range from supercomputers to PLCs and embedded systems.

• C++



C++ is a general-purpose programming language created by Bjarne Stroustrup as an extension of the C programming language, or "C with Classes". The language has expanded significantly over time, and modern C++ now has object-oriented, generic, and functional features in addition to facilities for low-level memory manipulation. It is almost always implemented as a compiled language, and many vendors provide C++ compilers, including the Free Software Foundation, LLVM, Microsoft, Intel, Oracle, and IBM, so it is available on many platforms.

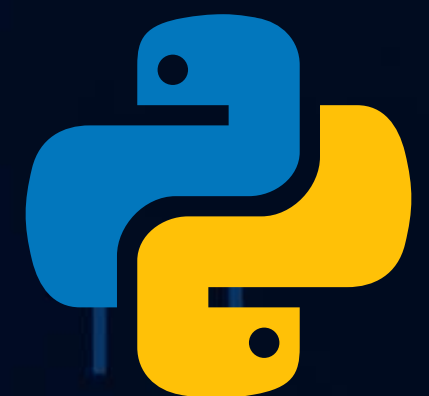
• Java



Java is one of the most popular programming languages in the world. Java 1.0 was released in 1995 on the principle of 'Write Once Run Anywhere'. It is a class-based, object-oriented language which is designed to be portable which means that you can find it on all platforms, operating systems and devices.

Java has been used for so long that there is lots of information about it on the web. This is ideal for beginners because this means that almost certainly any question you have has already been asked and answered by someone else in the Java community. It has an incredible toolset and great editors which let you know straight away if you have any errors. Java programming is a highly sought after skill and knowledge of it opens a lot of doors in terms of employment.

• Python



Python is one of the most widely-used high-level programming languages. This is mostly because it is simple, readable and you can use fewer lines of code to express a concept than you would have to with other languages. It is a scripting language which allows you to produce a lot of code in short periods of time.

It is open source and free and there are a lot of tools and documentation available for learning Python. There are some great official tutorials which are easy to follow and there is less of an emphasis on syntax which would suit beginners. It is a good stepping stone for moving on and learning other object-oriented languages.

• JavaScript



JavaScript is another language which is in high demand at the moment, but it is not to be confused with Java! Java is a programming language while JavaScript is a scripting language. It is relatively easy to learn but perhaps not as easy as something like Python. It runs on every single platform and is already in your browser for you to start learning which means you do not need to install it. If you want to build anything for the web then JavaScript must be on your list of programs to learn.

You can start using JavaScript straight away to start building websites and games for the web. It is one of the fundamental technologies which the web we know of today is built on. It is dynamic and is flexible to use on object-oriented programming. It derives much of its syntax from The C Language .



~Paras Billore
CSE 'B'

BANNING OF MOBILES IN EDUCATIONAL INSTITUTIONS

The basic question here is:
"SHOULD STUDENTS CARRY MOBILE PHONES"? The bigger question is :

"SHOULD THE PARENTS GIVE THEIR CHILDREN MOBILE PHONES"

Mobile phones enable near and dear ones to be in touch whenever they want and need to. But on the other hand, temptation beckons juvenile users. Students should go to school and colleges to study and not to enjoy. Parents strive hard to give a good education to their children and reform their life. Mobiles however important they may be, though keep one connected are not impossible to avoid. The danger is far greater than its benefits in the form of unwanted SMS, unsolicited pictures, movies etc. Mobile phones affect studies and corrupt the mind. Most of the students misuse mobile phones in colleges. They distract the concentration of the lecturers. The kids sporting costly mobile phones in their hand becomes a big reason for inferiority complex among the poor or middle class students. Uniformity among the students should be compulsory, schools and colleges are not the place for the students to show off with what they have. It is unfair for other students that they should use this platform for exhibiting expensive items. It is not only the right of the educational institutions to ban cell phones in its premises but also its duty to do everything possible to ensure that teaching functions in a civilized environment. The entire country requires discipline in all fields of life. Disciplinary codes like banning mobiles are important in school colleges etc.

~PROF. PARUL KHATRI

I dont think you
even know what a
hard drive is ...



I ' ve driven cross
country with my
wife ,three kids and a
dog . I know what a
hard Drive is !!



Poetic Musings

बेटियां

लहू से लहलुहान और मौत जैसे दर्द को भी छिपाती है,
आखिर बेटियां कहा कुछ बताती है।
सौ दर्द हो सीने में तब भी मुस्कुराती है, क्युकी हर जगह
कहा वो कोइ अपना सा पाती हैं।
मायके और ससुराल में कुछ इस तरह पिस जाती हैं,
की अपने ही सपनों से बहुत दूर चली जाती है,
पहले पिता फिर पति और बच्चों में यूँ उलझ जाती है,
फिर अपनी जरूरतें कहा याद रख पाती हैं।
एक अच्छी बेटि, पत्नी और मां बनने मे सारा जीवन
बिता देती है,
जाने कैसे वो अपने ही अस्तित्व से बिछड़ जाती है।
अपने दर्द बाटने वो हमेशा कोई अपना सा ढूँढती है,
फिर भी नाजने क्यों वो हमेशा अकेली रह जाती हैं।
कभी बैठो पास उसके, पूछो उसे क्यू परेशान है,
आखिर वो भी तो इंसान है।
कभी उसे उसके नजरिए से देखो, कहा वो अपने
सपने, जरूरतें और अस्तित्व को छुपाती है।
वो बेटियां है जनाब, आखिर बेटियां कहा कुछ बताती
हैं.....

पल्लवी....



Don't know whether I
would be a winner or
not but, I'm going to
be the best competitor
for sure.

-JANHVI

बचपन

वो हर खुशी में खुश हो जाना ।
वो हर डाट पर रोते रोते सो जाना ।
वो हर बारिश में भीगते हुए नाचना ।
मां के आंचल में वो प्यार से छिपना ।
और फिर दादी से कहानी सुने बिना ना सोना ।
अरे हां! यही तो था बचपन का जमाना ॥

वो खेतों में घूमकर खुश हो जाते हम ।
कहीं धूप कहीं छांव देखकर चौक जाते हम ।
सुबह से निकलकर शाम को घर आते हम ।
आसमान में कितने तारे पूछकर सबको सताते हम ।
"जितने सर पर बाल" जवाब पाकर कितने खुश
होते हम ॥

सब को देख बड़े होने का देखा था सपना ।
ना जाने क्यों ये सपना हो गया अपना ।
क्यू आ गया ये जवानी का ज़माना ।
बचपन ही तो था प्यार और मस्ती का खजाना ।
कभी समय मिले तो उन यादों में खो जाना ।
और हा! तुम बचपन के दिन भुला ना देना ॥

-पल्लवी



~Pallavi Pardhi
CSE 'B'

"आप किसी से कम नहीं"

रिमझिम बारिश में....
कड़कती धूप से है हम
आज खुशी के दिन भी ...
फिर हम माफ़ी के मोहताज़ है..
बचपन की शरारतों ने कान
पकड़े कई बार...
पर इस ही शरारत ने
सिर पकड़ा कई बार...
करोड़ों की भिड़ में
क्यूं हर मुसिबत में...
दामन पकड़ा आपका,
आपकी एक नशियत से
ढल से जाते दुनिया के गम...
आपसे डरते सिर्फ हम नहीं
डरती हमारी मुसीबतें भी...
आप किसी से कम नहीं
आप किसी से कम नहीं....

~प्रणव तिवारी

"फ़िकर मत कर..."

तलाश अभी बाकी है तेरी, तू
गम, होने की फ़िकर मत
कर...सवेरा तो होने दे तू अँधेरे
की फ़िकर मत कर...

~ जाह्नवी

People are povert, lacking
the education,
Are you sure, you want to
provide Sanitation??

Things were bad, now they
are worst,
Are you sure, we are not
Cursed??

People are craving for
shelter, are losing their lives,
Are you sure, we are the
Mightiest Creature??

They built the kingdom but
Forgot the ones dying from
hunger,
Are you sure, that this can
be solve by giving a hamper?

- JANHAVI

~Janhavi Bisen
CSE 'A'





जिद्द

अक्सर बच्चों से कहा जाता है की जिद्द मत करो,
पर क्या जिद्द करना इतना बुरा है ?

या फिर जिस बात के लिए जिद्द हो रही है, वह बुरी है ।

जी हां ! जिद्द का होना एक गुण है , बस इसकी दिशा सही होनी चाहिए ।

जिद्द करो, जिद्द करो की दुनिया बदल जाए,
जिद्द हो ऐसी जो गलत को सही कर जाए ।

सेहरा में नदिया बहने लगे, बंजर धारा भी हरी हो जाए ।

जिद्द हो है भूखे को रोटी मिले, जिद्द हो ऐसी जो रोते को हसा जाए ।

हौसला दो किसी की टूटती उम्मीदों को, हाथ दो किसी कर थकते कदमों को।

जिद्द हो जो आंधी में दिया जला दे, जिद्द हो ऐसी जो रास्तों के लिए चट्टान हिला दे।

हर बात सिर झुका के मान लेना बुजदिली है, कई बार जिद्द करना भी जरूरी है।

जिद्द हो की सत्य ना छिपे कभी, जिद्द हो सत्याग्रह ना रुके कभी ।

जिद्द हो हर हार जीत में बदल जाए, जिद्द करो कठिन सरल हो जाए।

जिद्द करो की अनेक एक हो जाए, जिद्द करो बेदी नेक हो जाए।

जिद्द हो जो बालि को वाल्मीकि कर दे, जिद्द हो जो अंधेरों में रोशनी भर दे।

जिद्द करो की तारे धरती पर उतरने लगे, खवाब किसी के पूरे करो की कोई तुमसे भी
प्यार करने लगे।

~Prof. Preeti Dixit

The Lady

Her head rests in the clouds
She stands with spark in her eyes
She fears no demise
The wisdom came earliest to the lady
Who knew nothing in this world would suffice

'Bring, O bring the morrow'
She orders with a deadly note
Like she is the one, her history rewrote
Let the almighty be aware
Of his creation of this sage human soul

Her feet wander in bushes
Fear no thorn, no venom and no dust
Her dreams wither warriors so robust
Spoke, the lady of wisdom- Athena
Never saw her any daughter this sonorous

May death come to the lady in peace
And make it seem her fleeting will
The wish of the cowards gets so fulfilled
They could not know but got to feel
Of what she left behind,
a constant muse and some priceless thrill



~Amrisha Singh
CSE 'A'

Some Interesting lines...

Masoom se Jaan sabse alag thi main,,.....
aurat ki kokh se sanmi
ek pari thi main ,
ek kinnar thi mai .!!
apna Sahara khud bani thi main
wohi Dil tootne par gir padi thi main
pahchan khone ke dukh se jyada,
jeevit rahane ka sukha tha. shabdoo ki bediyan
todkar, sastra banaya tha jisne voh hoon main.
Taliyoo se navasi
Ek kinnar hoon Mai,
Ha ek kinnar hoon main.!!!!



~DEEPTI SINGH
CSE 'A'

EVERThiNg tHaT I LOst!

I lost my liberty,
when I was born as a girl!
I lost my childhood ,
when I became mature!
I lost my happiness ,
when I reached class 9th !
I lost my friend circle,
when I approached college!
I lost my mind,
when I have my first boyfriend!
I lost my free time,
when I started working!
I lost my father's surname,
When I got married. !
I lost my family ,
when I have my own family !
I lost my vote ,
when I left my city!
I lost my strength,
when I became old !
I lost my life,
when I died.!!



“ Attractive Words ”

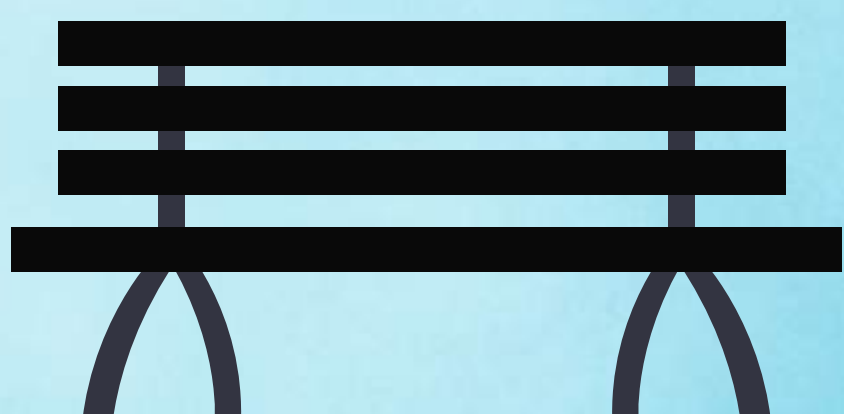
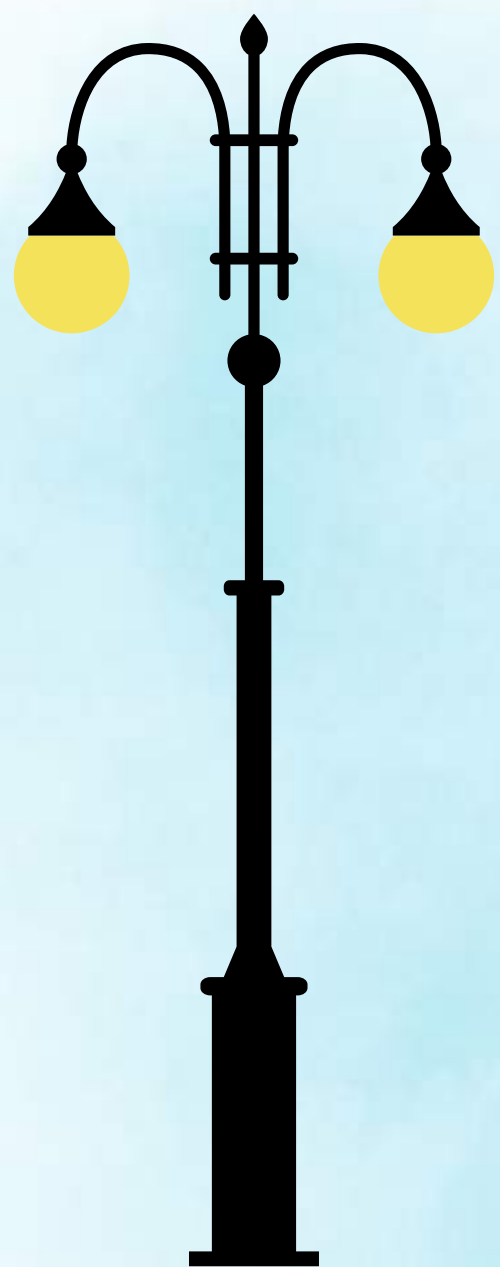
**DEFINE LOVE AND IT HAS NO SPECIFIC MEANING
IT DISPLAYS IN MOTHER TAKING CARE OF YOU BY
COOKING AND CLEANING
IT SHOWS WHEN YOUR FATHER IS WORRIED ABOUT
YOUR PROFESSION AND ASKS YOU TO MAINTAIN A
BALANCE BETWEEN
STUDIES AND RECREATION.
IT IS VISIBLE WHEN YOUR BROTHER GOES TO
FIGHT YOUR BULLY
AND YOUR SISTER TRIES TO COOK FOR YOU EVEN
IF THE RECIPE IS SILLY
YOUR FRIEND LOVES YOU WHEN HE OR SHE
KNOWS YOUR NEED BEFORE
YOU SPEAK AND YOUR PARTNER SHOWS WHEN HE
OR SHE STANDS BESIDE YOU
IN WHATEVER YOU SEEK**

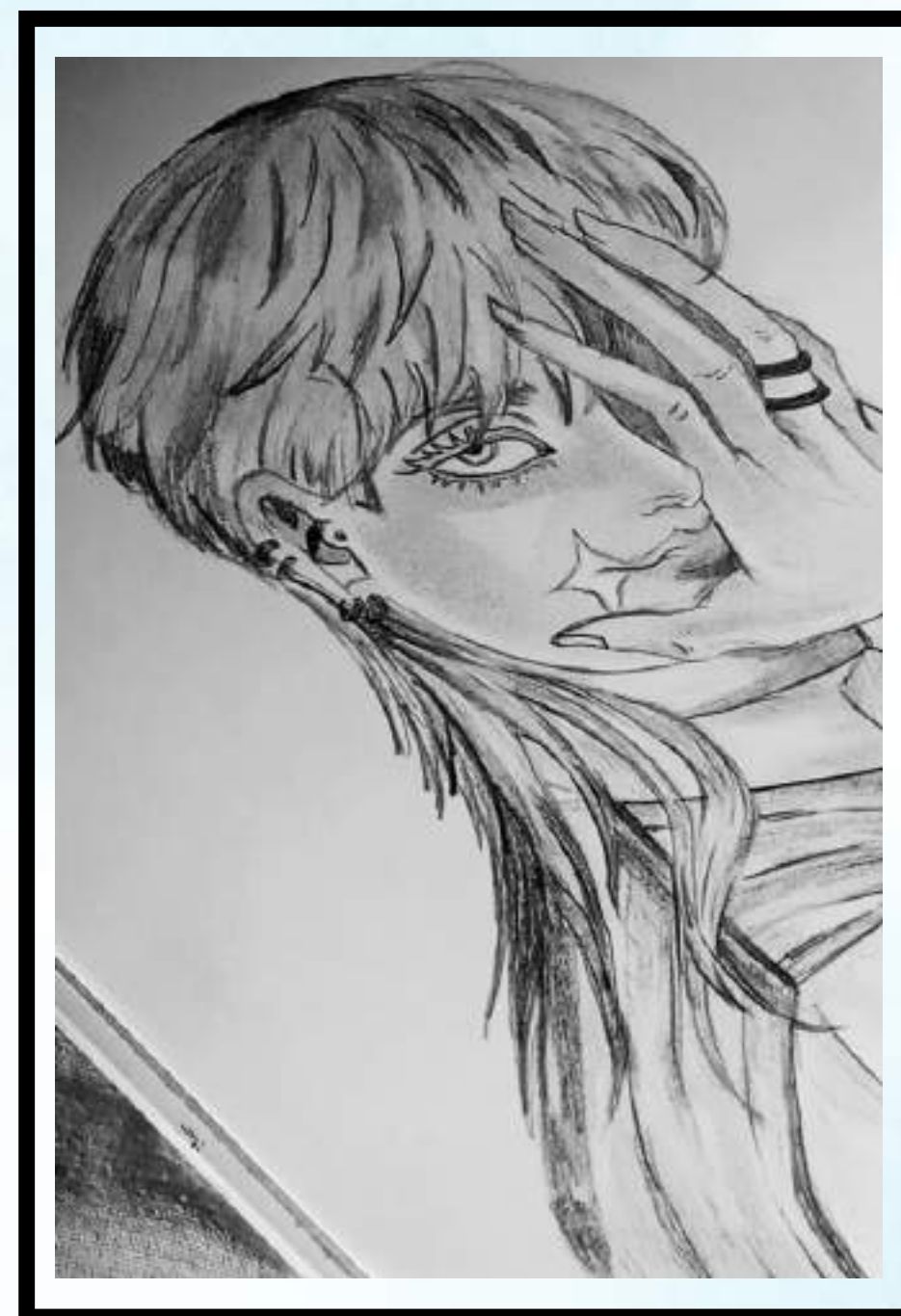
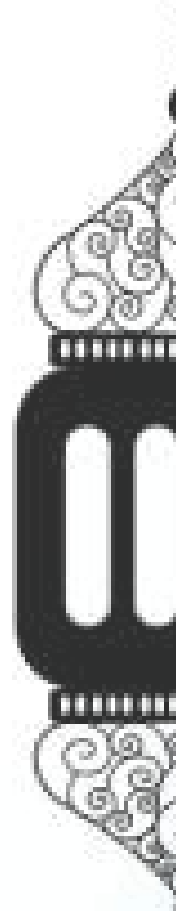
- Dr. Monika Bhatnagar

**Tomorrow in 7 Words
Day of hope that quickly becomes
today.**

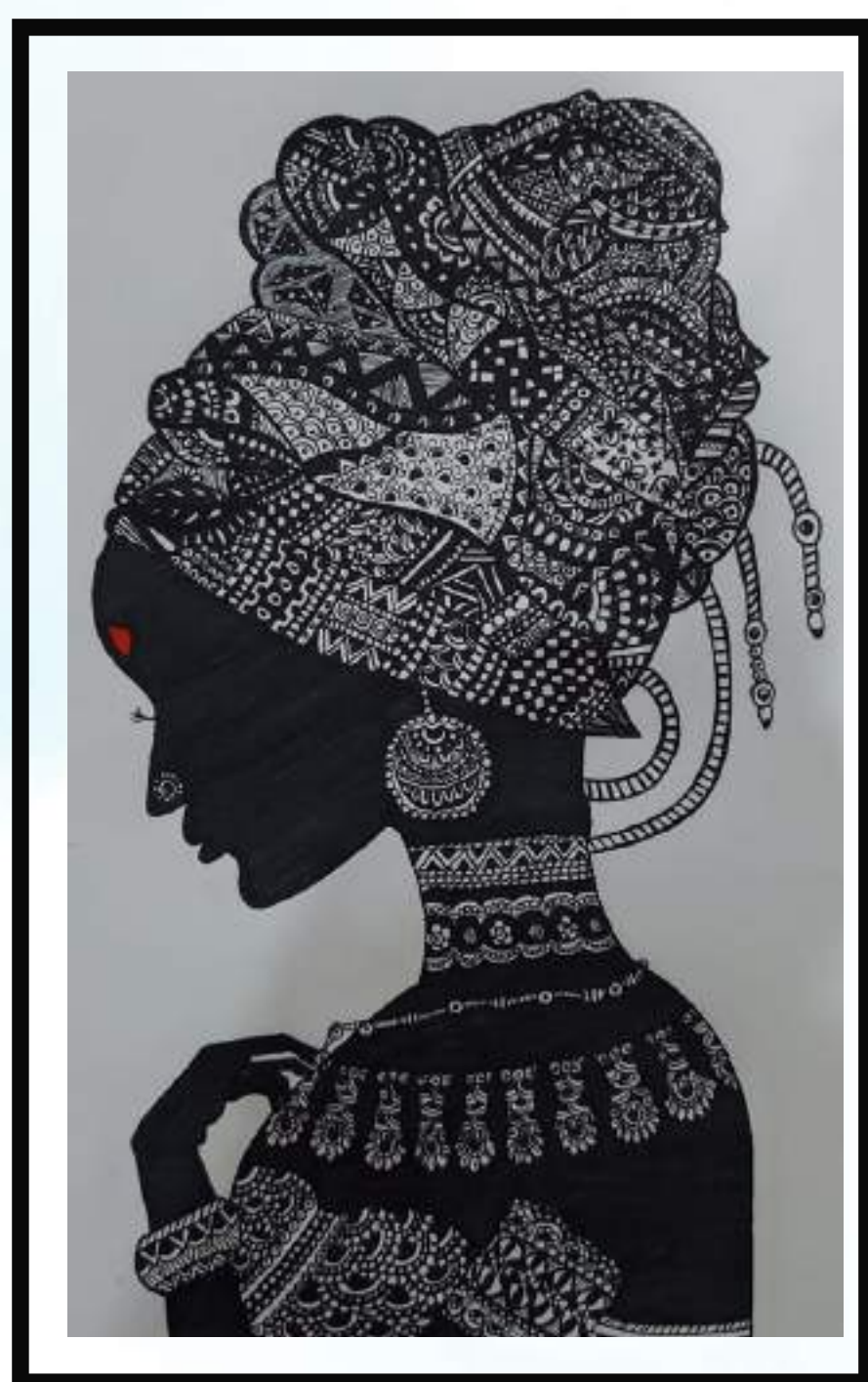


The Art Street



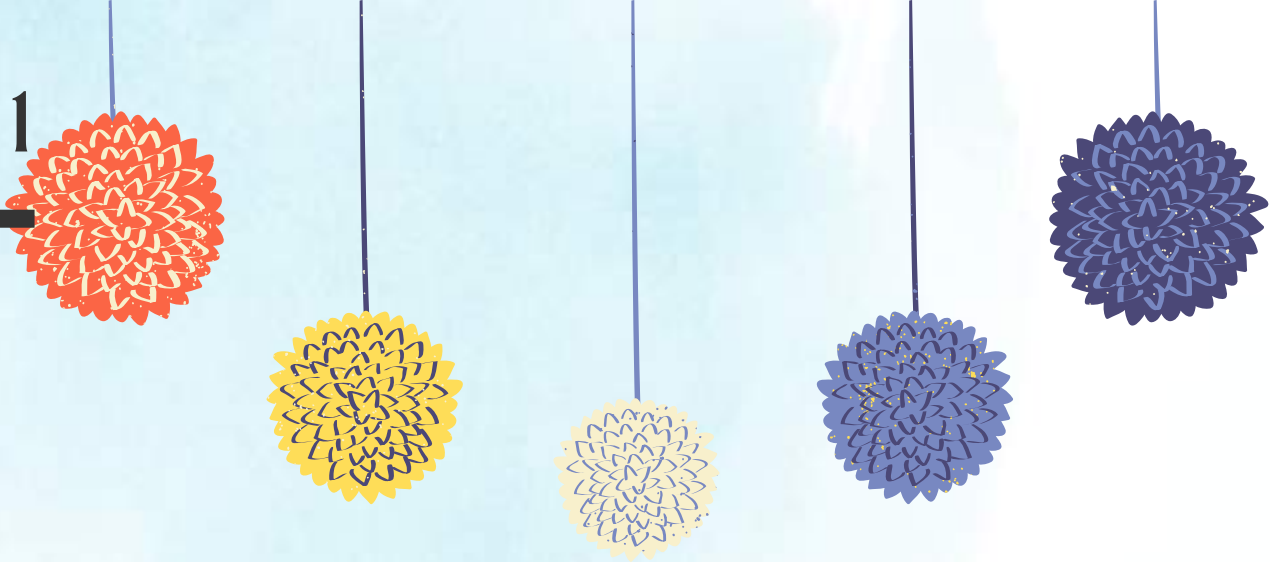


~Amrisha Singh
CSE 'A'



~Kashish Jain
CSE 'A'

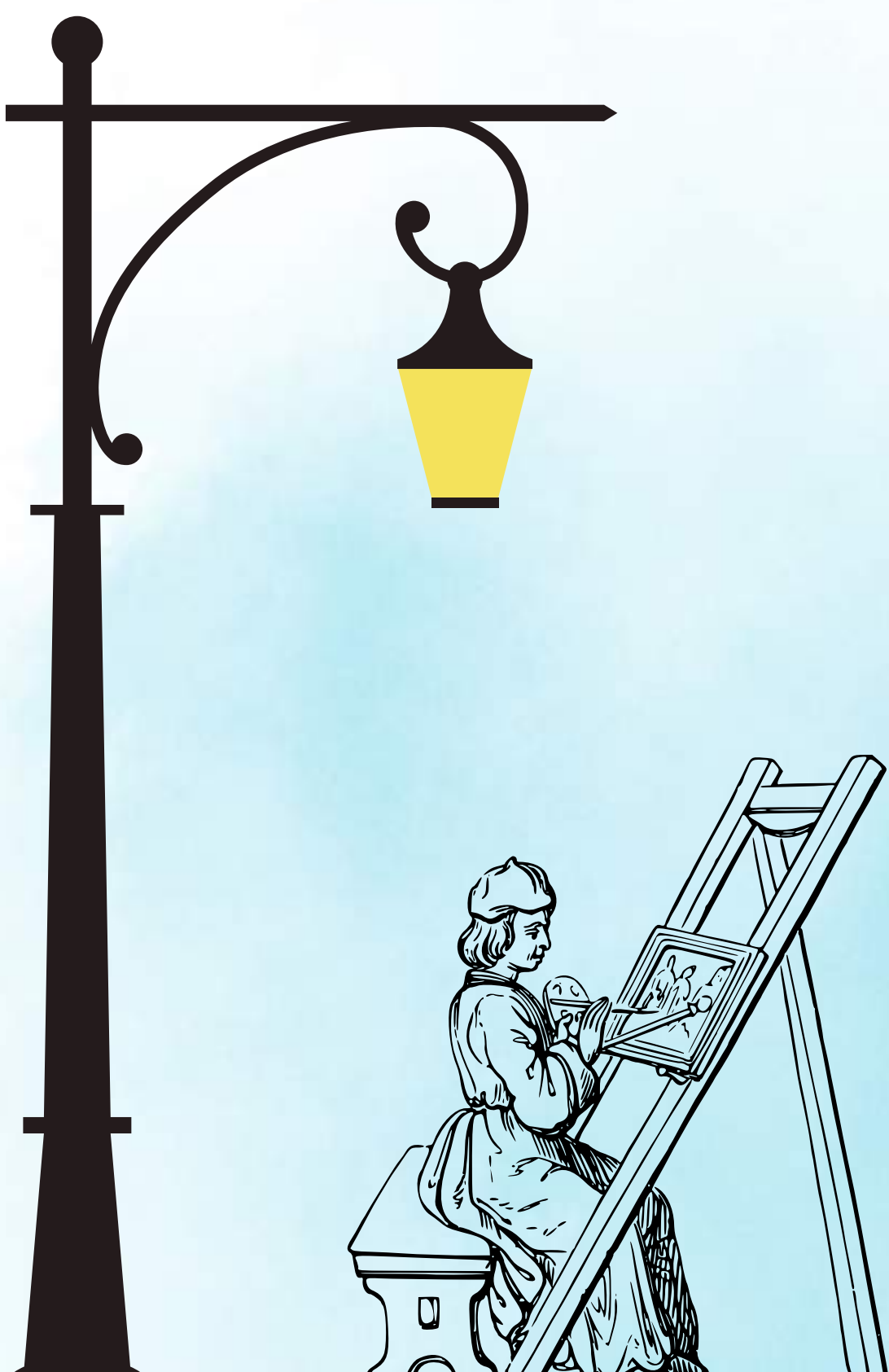




~Vidhush Upadhyay
CSE 'B'



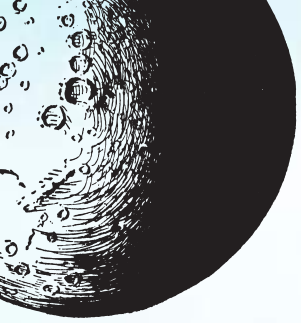
~Reshu Waghmare
CSE 'B'



The Wall Arts

~Pallavi
CSE 'B'





Artistic
wall



~Khushi Shrivastav
Cse B



Artistic
wall



~Dr. Deepshikha
Patel



How did the
boy break the
school
computer?

His PE teacher
told him to kick
the ball in the
net.

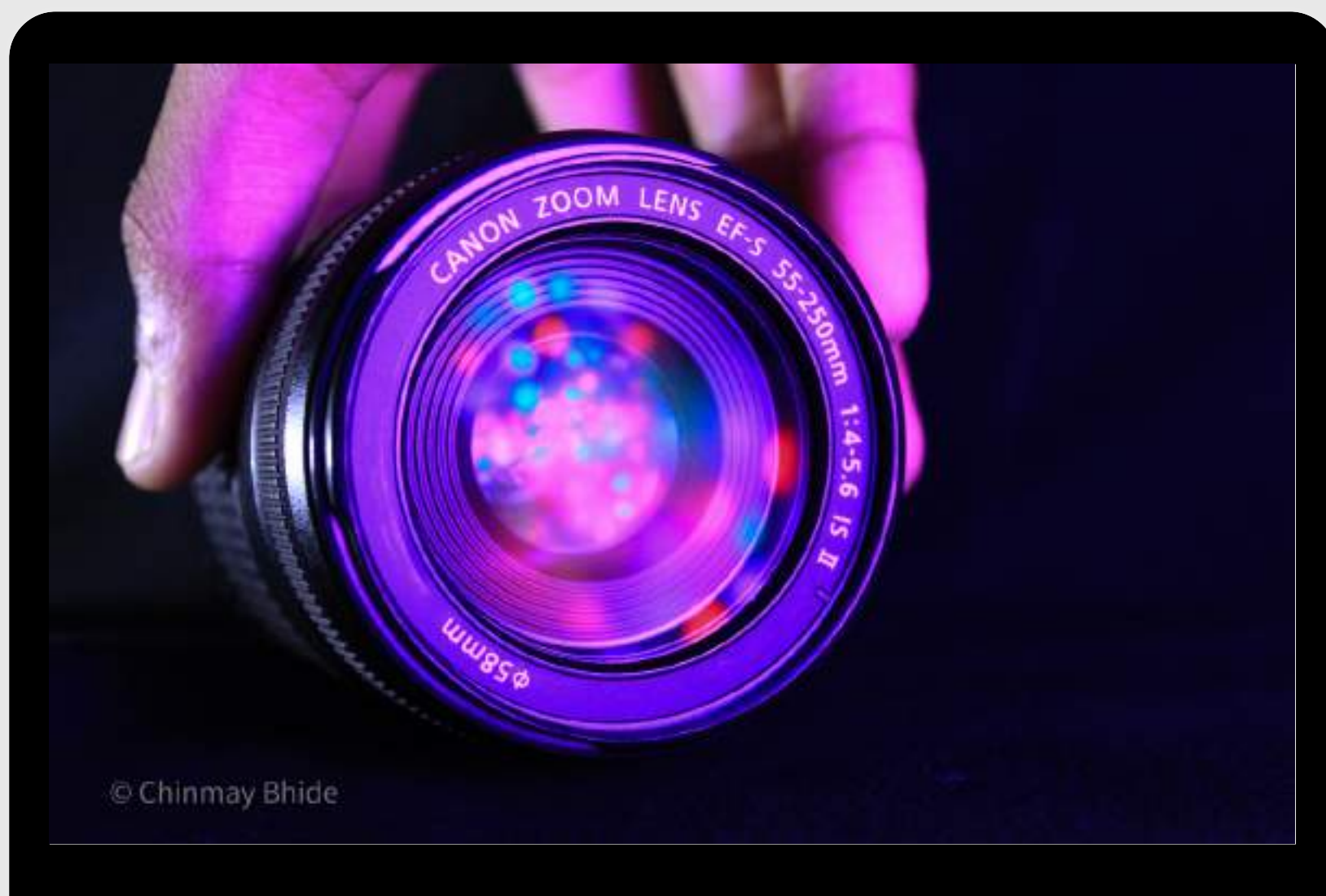


Roses are Red
Violets are Blue
unexpected '{' on line
32

Listening to wife is like
reading the term and
condition of
website. you understand
nothing, still you say...
"I agree"....!



PHOTO PHACTORY



~Chinmay Bhide
CSE 'A'



CSE

ATTENTION CREATIVES!

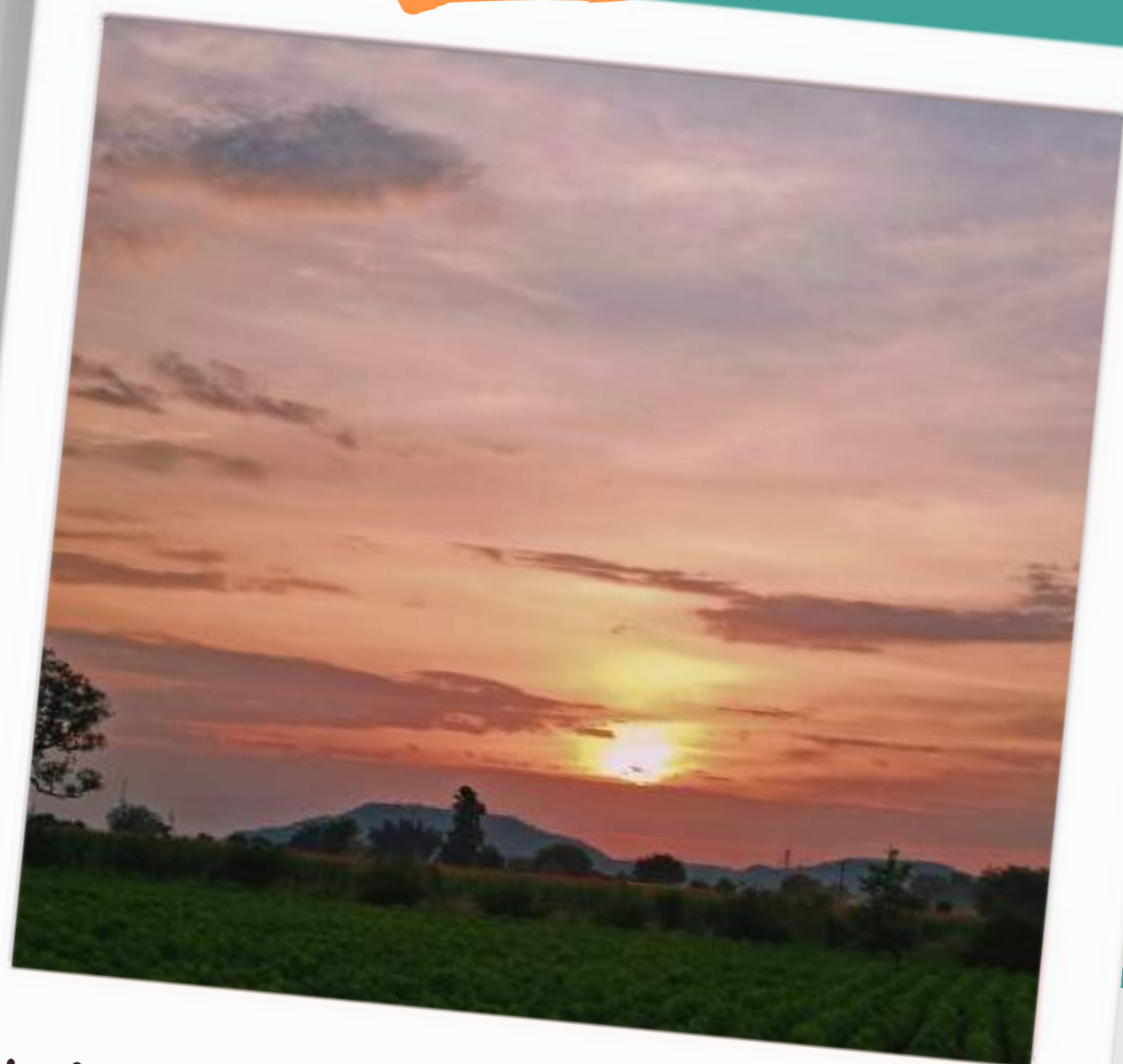


Pranabh Asati cse 'B'



Paras Billore cse 'B'

PICTURESQUE



Uday Gawande cse 'B'

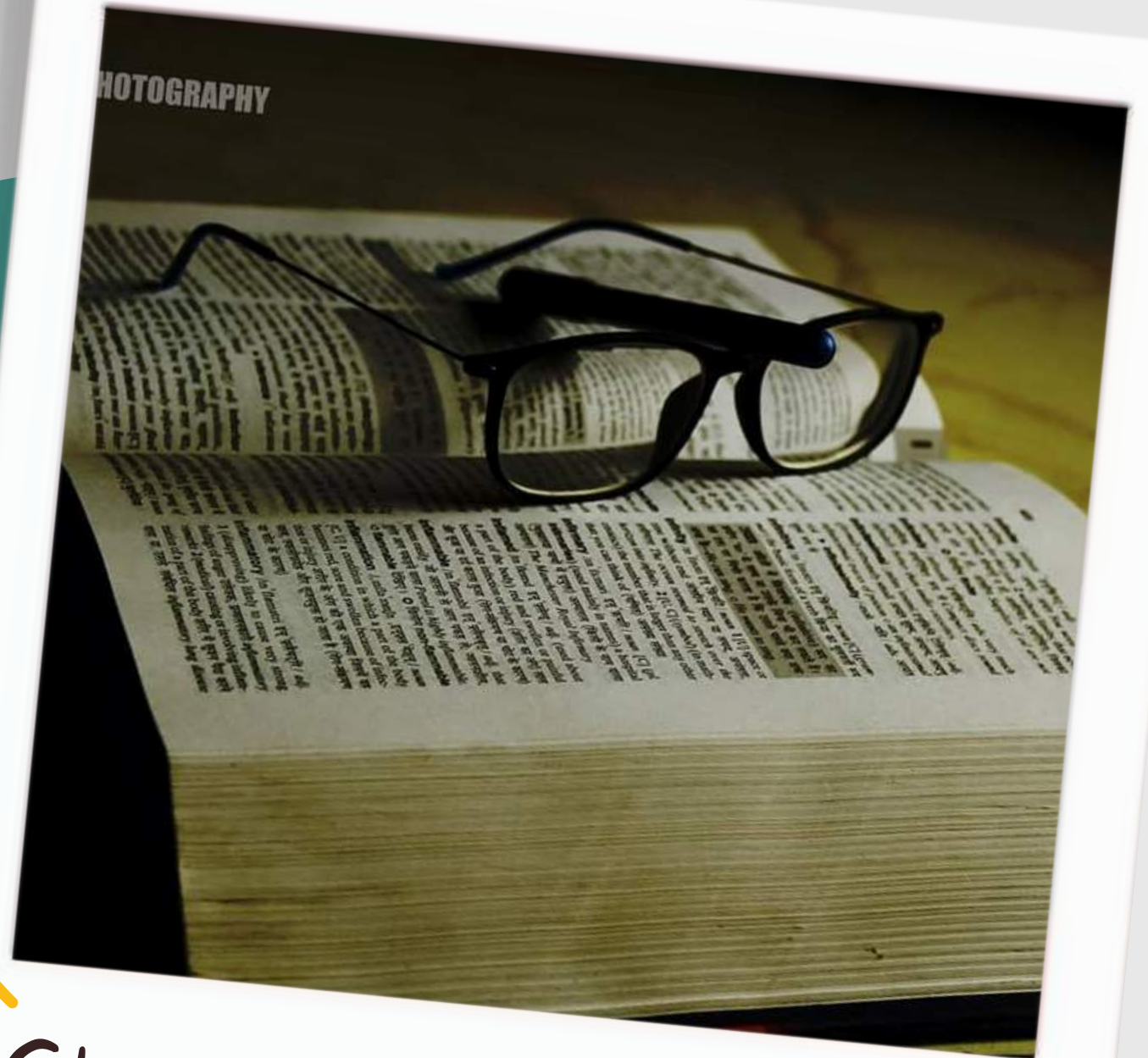


Paras Billore cse 'B'

ATTENTION CREATIVES!

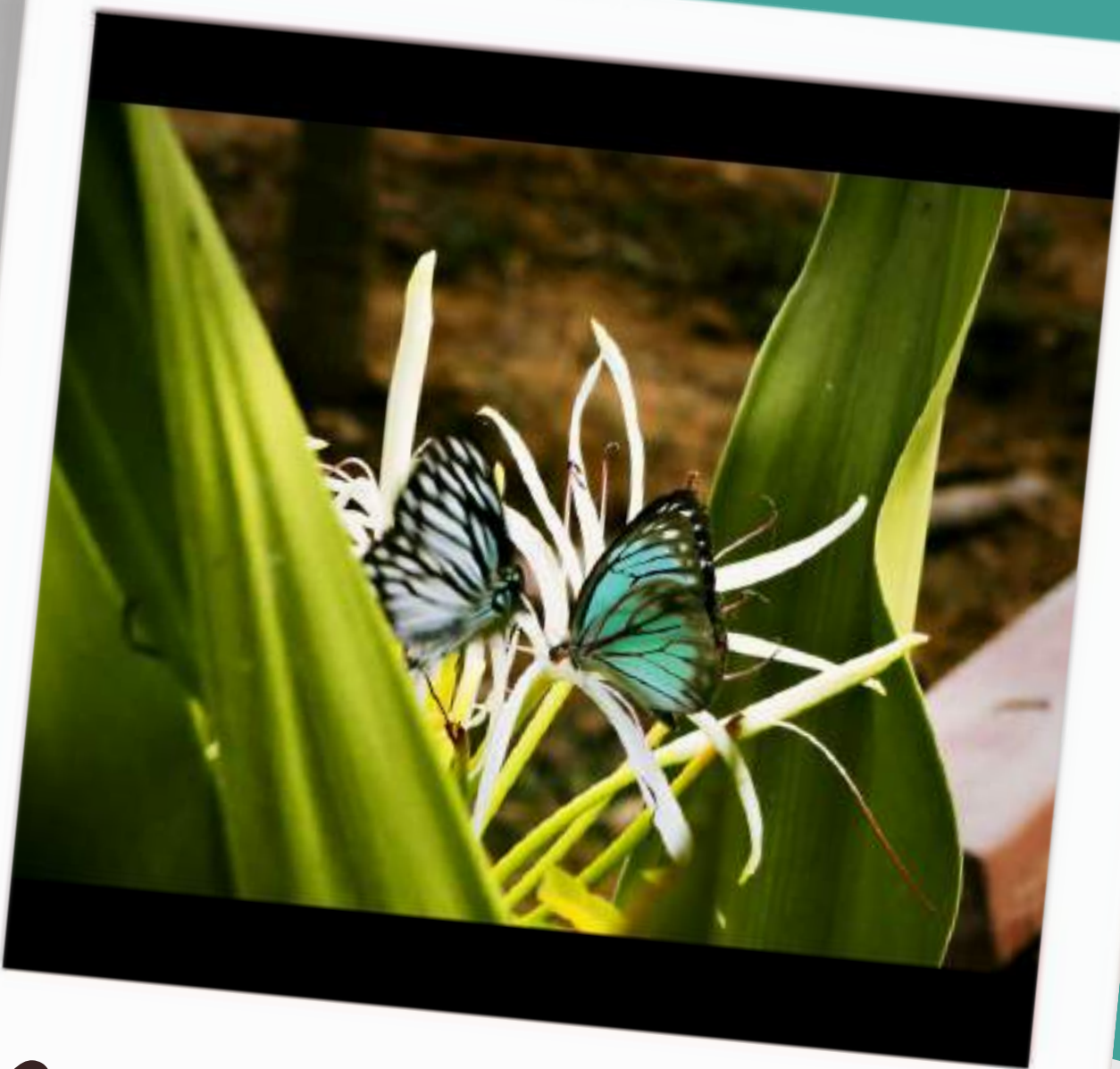


Aayush Khare cse 'A'



Chinmay Bhide cse 'A'

PICTURESQUE



Swasti Dwivedi cse 'B'



Ritik Meena cse 'B'

Post pandemic behaviour of College Students

In my career till now I have met a very large number of students with varied personalities and behaviour. Nothing has become a common trait of almost all the students. But in the recent scenario two common traits are making their way not only amongst children but also young adults like college going students. This dangerous trait is carelessness and laziness. This was the COVID Pandemic's gift to the students through lockdowns and precautions.

Online classes gave freedom to students to join their classes at their will. Most of the students preferred to sleep after joining the class. They had no desire to learn from the one on the other side of the network. This led to lack of knowledge in their subjects. This lack of knowledge was enhanced by the changed examination procedure. Now most of the exams were conducted for Multiple Type Questions where answers were easy with a quick search on any search engine. There was no need to understand the concept or learn the subject. The extensive study that opened the minds of students was lost. All these factors prevailing for two long years led to the group of students whose brain had lost the ability to think, analyse, develop or create especially in technical education. Since they knew that they would not be harmed for not learning their concerned subjects they became lazy and cared very little about their education. The worst thing about online classes was that students wrote very little and became very lazy for writing.

Post pandemic when the classes were all offline and the students were forced to write to complete their subjective responsibilities. This irritated the students and since they had not studied several subjects they faced a lot of problems. Most of the first year students did not know how to write their answers because they had not written for their class XII examinations too. When they were forced to comply with their current mode of education most of the students faced anxiety and depression. This situation was prevalent among other students too.

With their changed situation it was difficult for them to cope with it resulting into depression and anxiety. In such a situation what is required is a little understanding of their state of mind by their parents and their teachers. Instead of judging them or mocking their situation the elders in their life should be polite and caring to help them out of their predicament. It can be best done by putting themselves in their shoes and treating the students in the manner they would expect themselves to be treated. There is no doubt in the belief that with the changing time situation will be more comfortable for them and they will certainly perform well.

~Dr. Monika Bhatnagar

SMART INDIA HACKATHON

Smart India Hackathon is a non-stop digital product development competition, where problems are posed to technology students for innovative solutions. It:

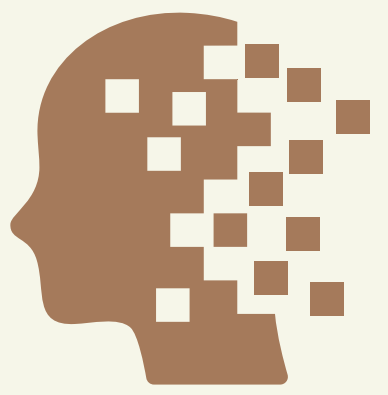
- Harnesses creativity & expertise of students.
- Sparks institute-level hackathons.
- Builds funnel for 'Startup India' campaign.
- Crowd-source solutions for improving governance and quality of life.
- Provides opportunity to citizens to provide innovative solutions to India's daunting problems.



Idea Submission Process

- Once problem statements are unveiled to students on the portal, they are supposed to form a team of 6 members including at least one female member as mandatory.
- The college SPOC will first register on the SIH portal. SPOCs must upload their college authorization letter while completing the registration formalities. Please note only one SPOC is allowed to register in the portal.
- The teams can come up with their own ideas against the problem statements and submit them to the nominated faculty or SPOC of their own college.
- Colleges are recommended to hold Internal Hackathons (hackathon competitions at individual college level) for teams that have submitted ideas.
- Each college who has submitted ideas for their teams and also new colleges who have not registered are invited to nominate 4 more teams.

OBSESSIVE COMPULSIVE DISORDER



There are many types of mental disorder like Anxiety Disorder, Bipolar Disorder, Schizophrenia, Obsessive Compulsive Disorder (OCD), Dementia and many more but I am going to talk about OCD. What OCD actually is? Many of us don't even know about these disorders, even after facing the problem, they can't diagnose it, which is due to lack of knowledge and education, because no one talks on these important topics. OCD causes sensations, repeated unwanted thoughts and actions or and urge to do something over and over again called compulsions. Some can have both obsessions and compulsions. Everyone has habits or thoughts that repeat sometimes but people with OCD have thoughts or actions that are beyond control, interfere with work, personal and social life and much more. They repeatedly count things, wash hands, doing tasks in a specific order every time, and closes the door, switch on & off the buttons for a large number of times (minimum 3-4 to maximum 80-100).

They also experience with trauma and depression, anxiety attacks, fear of death, fear of things that might be dirty or compulsions to clean not for an hour but may be for whole day. After knowing little bit about OCD, many of you will think, Oh! This also happens with me, I also keep doing things repeatedly but no, it's not like that, although 2-3 persons in every 100 persons have OCD in their lifetime. Even some of them can't diagnose it or may be they don't digest the fact they are going through, but nothing to worry, many people have some part of OCD like repetitions of doing something or checking things again and again for example, whether I had locked the gate or not, off the cylinder knob or not and if doubtful, they may face intrusive thoughts over and over again of something bad going to happen, if they won't check once again.

OCD usually starts at 19-20 years of age however it can occur at any age including as early as 2 years of age in children. There is no permanent cure for OCD but medicines, therapy and combinations of treatments can manages the things better as it was before. OCD causes because of the lack of serotonin which is used to communicate between the brains deeper and front part of brains. So increasing the level of serotonin chemical in brain can help to alleviate OCD symptoms.

People's suffering from these mental disorders really need an emotional support from their family, their partners, and their loved ones, because these disorders can make them feel like loneliest even though they are not and also they try to attempt suicide and being violent to themselves. If anyone of you feeling any kind of symptoms diagnose it properly and don't hesitate to talk to your loved ones and especially do visit your psychiatrist, They will definitely help you.



~ Nitika Shrivastava
Cse 'A'



As we know it well, for someone his/her self-respect is their Mighty power by which they live a Proudful and a Peaceful life.

There are many things by which this power is described in our society. According to Hindu mythology "Pagadi " is one of them. 'Pagadi' is not just a piece of cloth or a part of your costume, but it does have its own importance. There are idioms, kahavatein, rituals and historical beliefs connected with it. Pagadi is seen as the Throne of respect, value, position and most importantly the experience.

In the world full of hectic, cruelty, disloyalty, injustice, it has always remain a hope of justice. It is always taken as the symbol of power and money owned people, but it's real meaning is hidden inside having the power of mind, of humanity, someone having values, discipline, moral of life, so that he can give the right path of life to those in need, is the one who can proudly admire this honour.

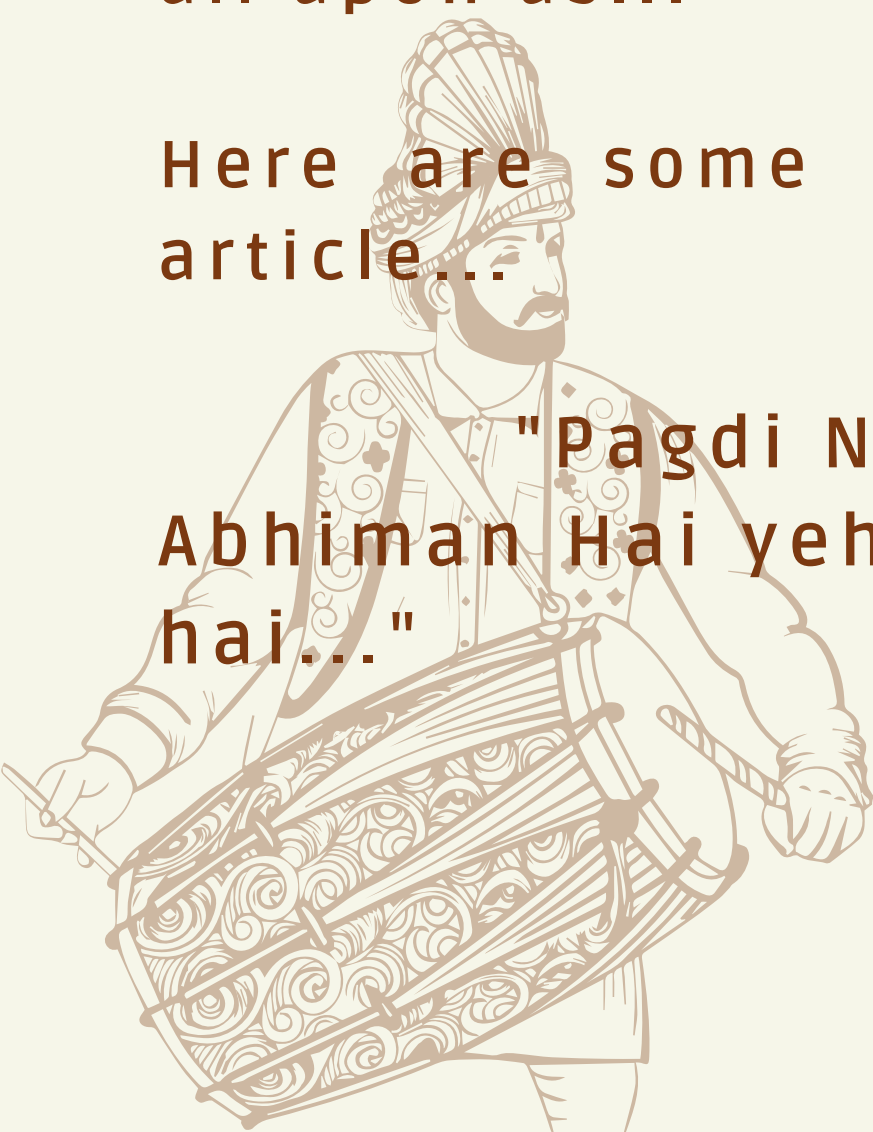
As I described in above para the actual weight of Pagadi is not in holding the power but it is in using your power for right purpose, for justice, but most of the people in previous decades and ages had used their position for mischievous things. They had used their power for their own satisfaction and had done so many inconvenient things with those in need.

People are doing the same thing even now and this time it is more severe than earlier. The difference is just about the ages, about the ways. But here, we have to understand the need, the importance of the position we have, of our responsibility. We have to decide what we want... What we want to taught our next generation, to live better or to get the worst, to get love or to deliver hate, to give or to Seize... It's all upon us...

Here are some lines which give a wholesome conclusion of this article...

"Pagdi Nahin sirf ye, Tere Man Ki pahchan Hai...
Abhiman Hai yeh Tera, Koi chij Nahin, jo chand rupiyon ki mohtaj hai..."

~ Janhavi Bisen
CSE 'A'



I HATE PROGRAMMING
I HATE PROGRAMMING
I HATE PROGRAMMING
IT WORKS!
I LOVE PROGRAMMING



Lightweight Small Arms Technologies

The Lightweight Small Arms Technologies (LSAT) program is funded by the U.S. Joint Service Small Arms Program, with the goal of significantly reducing the weight of small arms and their ammunition.[1] Following a series of military programs to investigate advances in small arms (SPIW, Future Rifle, ACR, OICW), the LSAT program is the US military's latest project to replace existing US small arms. Tactical concepts and the research from the previous small arms programs indicates that lightening small arms is the first significant step towards increasing soldiers' lethality and survivability.

Achievements

- **Light machine gun**
- **Assault rifle**
- **Ammunition**
- **Cased**
- **Caseless**

~Shivam Kumar



What is Blockchain?

~ Pranabh Kumar Asati
CSE 'B'

What is Blockchain?

A blockchain is a constantly growing ledger which keeps a permanent record of all the transactions that have taken place in a secure, chronological, and immutable way.

Let's breakdown the definition,

Ledger: It is a file that is constantly growing.

Permanent: It means once the transaction goes inside a blockchain, you can put up it permanently in the ledger.

Secure: Blockchain placed information in a secure way. It uses very advanced cryptography to make sure that the information is locked inside the blockchain.

Chronological: Chronological means every transaction happens after the previous one.

Immutable: It means as you build all the transaction onto the blockchain, this ledger can never be changed.

A blockchain is a chain of blocks which contain information. Each block records all of the recent transactions, and once completed goes into the blockchain as a permanent database. Each time a block gets completed, a new block is generated.

Virtual Reality (VR) & Augmented Reality (AR) technologies

Virtual Reality (VR) and Augmented Reality (AR) are regarded as the most world-changing technologies of 21st Century. By stimulating our senses with computer generated images, they are able to immerse our minds in the experience which temporarily accepts VR/AR as another real version of reality. VR and AR are used to create powerful 3D interactive visual experiences for all kinds of purposes.

At the International Tourismus-Börse 2017 (Europe), several tourism technology providers demonstrated VR/AR content, showcasing tourist destinations and attractions on location. These generations of types of companies typically produce content in assignment from destination providers, attraction providers and hospitality providers, and some offer a Content Management System (CMS) to travel agencies that they may use to develop their own immersive VR experiences to their clients. VR is considered to a promising technology for the Hospitality and Tourism industry that has the powerful effect of fooling the senses into believing one is present in a virtual world, by providing interactive 3D surroundings simulated by a computer.

These simulations, can depict any tourist location or attraction reproduced as 3D imagery, controlled by powerful computers creating a complete Virtual Environment (VE). VE is simply a virtual digital environment generated that makes the user with VR equipment feels as if he/she is present inside it. A complete VR System is regarded as the interface between the real world user and the VE. According to a report published in May 2017,(Grand View Research, Inc)., the VR industry is expected to reach USD 692 billion by 2025 and the concept can potentially expand from basic gaming to other applications like Education, Medicine and Healthcare, Architecture, Sports, TV Programs, Movies and Music and many more.

VR is gaining forefront attention in 2017 as various companies like Google, Microsoft, Facebook, HTC and many others, have come up with their own designs of VR HeadMounted Displays (HMDs). AR is an integration of the real world and the virtual world, with the aim of providing additional information about something in the real world with information displayed in the virtual world. For instance a person could look at a painting or a machine in the real world, hold up their smartphone or tablet in front of the painting or machine, and see on the screen the painting or machine with additional useful information, thus augmenting reality.

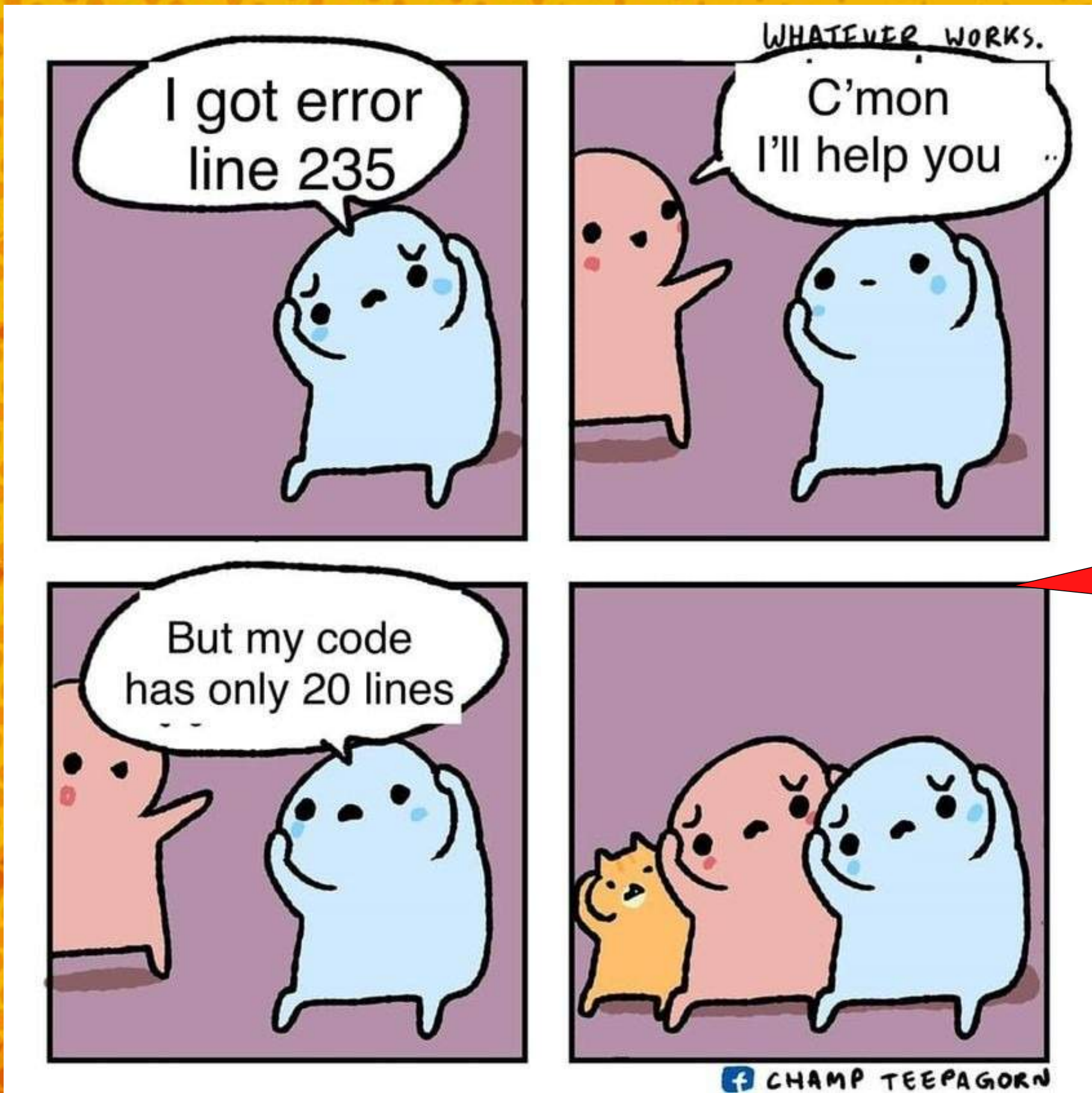
In the case of the painting, the additional information could be about the painter and the painting technique and the painter's life for instance. Where as, in case of the machine, the additional information could be about how to open the machine and replace a broken part. AR technology is also capable of revolutionizing the tourist experience by making possible the planning, previewing and accessing location-based information of the holiday journey and destinations, in an interactive, and simple manner, from various places. Users can preview and book their hotel, access information while they are there, navigate around their destination, translate written, spoken signs or conversations, locating dining and entertainment options. It can all be done simply through an app on a mobile device. In 2009 the first AR smartphone apps came out, using AR technology to add a layer of guidance, content and entertainment to physical locations seen through the smartphone's camera view. Tuscany+ was the first app built specifically for tourism - an "interactive, real-time guide" - intending to enhance the visitor experience . The AR technology made it possible to layer the digital enhancements over an existing reality or real-life scenario.



By- Ayush Gupta

Are you concerned about the increase in artificial intelligence?

No ,but I am concerned about the decrease in human intelligence....



BANG

TOWARD AN OPEN WEB (OF THINGS)

~Yogesh Malviya

Thirty years of untamed growth of the World Wide Web have contributed to a sprawl of communication platforms and web applications that are generating tons of data. Yet, no rules about its usage and storage exist. As a result, the Web has entered an unfair culture where big tech companies offer free applications in exchange for the right to sell our user-generated content. This imbalance has led to several data scandals that have shown how these companies can exercise economic and political control on our society.

In the near future, the mobility of our devices (e.g., smartphones) combined with machine-learning algorithms and content from all kinds of Internet of Things devices will make our surroundings adapt to our needs. Such evolution will expose information about our living environment and our interactions within, which will make us even more trackable, easier to label, and targetable.

Therefore, the future Web should prevent a further imbalance and work toward more fairness. In such a web, users should be able to choose where to store their data independent of the applications they use on top of that data. This is something the socially linked data (SOLID) project by Tim Berners-Lee tries to rectify with the use of a personal data store (POD) [1]. A POD offers an ecosystem to store all kinds of personal information in a standardized format. This way, data from any person, machine, sensor, animal, and so on can be connected to any other piece of data by anyone with the correct access rights.

Not only will users have full control over systems that are a part of their lives, but also data from any source will be integrable in any platform. This way, innovations are not set aside to those with access to data. Moreover, in an ecosystem with standardized data formats, machines will be able to crawl the web like a global database, interlinking data from different data sources, thereby able to solve unasked questions. In short, the use of a distributed system to store and link data, such as SOLID, can have a considerable impact on the way we interact with the web. However, it will only succeed if not only technical, but also human barriers are overcome.



CLOSED ECOLOGICAL SYSTEMS (CES)

Closed ecological systems (CES) are ecosystems that do not rely on matter exchange with any part outside the system.

The term is most often used to describe small manmade ecosystems. Such systems are scientifically interesting and can potentially serve as a life support system during space flights, in space stations or space habitats.[1]

In a closed ecological system, any waste products produced by one species must be used by at least one other species. If the purpose is to maintain a life form, such as a mouse or a human, waste products such as carbon dioxide, feces and urine must eventually be converted into oxygen, food, and water.

A closed ecological system must contain at least one autotrophic organism. While both chemotrophic and phototrophic organisms are plausible, almost all closed ecological systems to date are based on an autotroph such as green algae.

A closed ecological system for an entire planet is called an ecosphere.[2][3]

Man-made closed ecological systems which were created to sustain human life include Biosphere 2, MELISSA, and the BIOS-1, BIOS-2, and BIOS-3 projects.[4]

Bottle gardens and aquarium ecospheres are partially or fully enclosed glass containers that are self-sustaining closed ecosystems that can be made or purchased. They can include tiny shrimp, algae, gravel, decorative shells, and gorgonia.



Hyper Automation

Would you believe me if I told you in a few years AI would be given equal rights as humans? It's already happening , have you heard about Sophia? She's a humanoid robot which is powered by AI. She has her own thoughts, emotions, can see and speak like humans, in 2017 she was granted legal citizenship in Saudi Arabia.

HyperAutomation involves the use of multiple technologies like Artificial intelligence (AI), Machine Learning and Automation technologies such as Robotic Process Automation (RPA) to automate as many business processes as possible.

According to business wire, Seventy percent of RPA professionals say their organization will hire more developers in the next year. According to Forbes, the use of AI in many sectors of business has grown by 270% over the last four years.

~Paras Billore
CSE 'B'

PROGRAMMING SONGS



Local variable:

Jeena Yaha Marna Yaha, Iske siva Jana kaha.....

Global variable:

Musafir hu yaro, na ghar hai na thikana.....

Hidden or Private scope variable:

Jaan-e-jaan.. dhundtaphir raha, Hu tujhe raat din, main yaha se waha...

Null pointers:

Mera jeevan kora kagaz kora hi reh gaya.....

Dangling pointers:

Maut bhi aati nahi jaan bhi jati nahi.....

Untrackable bug:

Ae ajnabi 11 tu bhi kabhi, awaaz de kahi se...

Unexpected bug (during presentation to client) :

Ye kya hua, Kese hua, kab hua, Kyu hua....ab ye na pucho....

Debugger:

Jab koi baat bigad jaye, jab koi mushkil pad jaye..Tum dena sath mera..O hamnawaa...

Load Balancing :

Saathi haath badhana, ek akela thak jayega mil kar bojh uthana....

2 Recursive functions calling each other:

Mujhe kuch kehna hai, mujhe kuch kehna hai...

GOTO:

Ajeeb dasta hai ye, Kaha shuru kaha khatam..Ye man zile hai kaun si, Na wo samajh sake na hum !!

windows getting open sourced:

Parde mein rahne do parda na uthao parda jo uth gaya to.....



Neural Networks

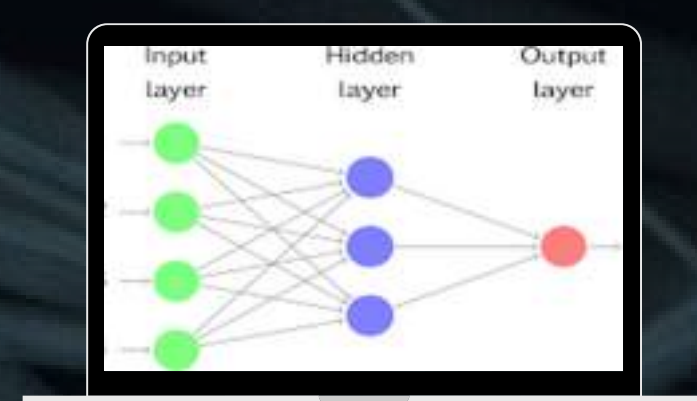
By- Neeraj Gami

Neural Networks provides a forum for developing and nurturing an international community of scholars and practitioners who are interested in all aspects of neural networks, including deep learning and related approaches to artificial intelligence and machine learning.

Neural Networks welcomes submissions that contribute to the full range of neural networks research from cognitive modelling and computational neuroscience, through deep neural networks and mathematical analyses, to engineering and technological applications of systems that significantly use neural network concepts and learning techniques. This uniquely broad range facilitates the cross-fertilization of ideas between biological and technological studies and helps to foster the development of the interdisciplinary community that is interested in biologically-inspired artificial intelligence.

Accordingly, the Neural Networks editorial board represents experts in fields including psychology, neurobiology, computer science, engineering, mathematics, and physics. The journal publishes articles, letters, and reviews, as well as letters to the editor, editorials, current events, and software surveys. Articles are published in one of four sections: learning systems, cognitive and neural science, mathematical and computational analysis, engineering and applications.

The first step in ensuring your neural network performs well on the testing data is to verify that your neural network does not overfit. Ok, stop, what is overfitting? overfitting happens when your model starts to memorise values from the training data instead of learning from them. Therefore, when your model encounters a data it hasn't seen before, it is unable to perform well on them. To give you a better understanding, let's look at an analogy.



Artificial Intelligence (AI) and Machine Learning

BY ANAND SINGH SATYA

Artificial Intelligence, or AI, has already received a lot of buzz in the past decade, but it continues to be one of the new technology trends because of its notable effects on how we live, work and play are only in the early stages. AI is already known for its superiority in image and speech recognition, navigation apps, smartphone personal assistants, ride-sharing apps and so much more.

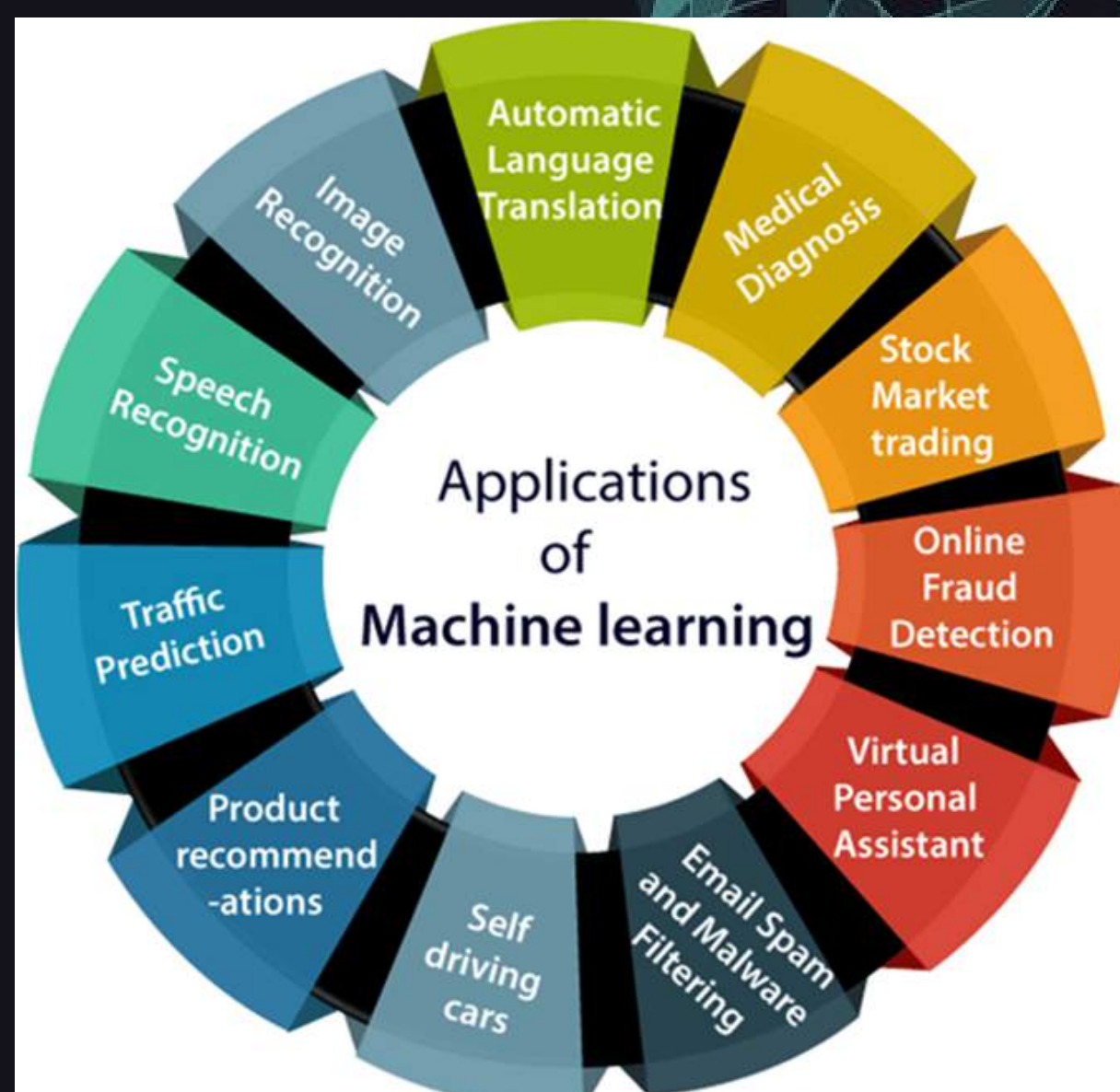
Other than that AI will be used further to analyze interactions to determine underlying connections and insights, to help predict demand for services like hospitals enabling authorities to make better decisions about resource utilization, and to detect the changing patterns of customer behavior by analyzing data in near real-time, driving revenues and enhancing personalized experiences. The AI market will grow to a \$190 billion industry by 2025 with global spending on cognitive and AI systems reaching over \$57 billion in 2022. With AI spreading its wings across sectors, new jobs will be created in development, programming, testing, support and maintenance, to name a few. On the other hand AI also offers some of the highest salaries today ranging from over \$1,25,000 per year (machine learning engineer) to \$145,000 per year (AI architect)

- Making it the top new technology trend you must watch out for!

Machine Learning the subset of AI, is also being deployed in all kinds of industries, creating a huge demand for skilled professionals. Forrester predicts

AI, machine learning, and automation will create 9 percent of new U.S. jobs by 2025, jobs including robot monitoring professionals, data scientists, automation specialists, and content curators, making it another new technology trend you must keep in mind too! Mastering AI and machine learning will help you secure jobs like:

1. AI Research Scientist
2. AI Engineer
3. Machine Learning Engineer
4. AI Architect





STUDENT ACHIVEMENT



Pratham Jain

- *UCMAS Abacus International Compitetion*
- *UCMAS Abacus National Compitetion*

Ritik Meena

- *Basketball - CAO (U17/U19)*
- *Cricket - National (U17)*

Adarsh Singh Rajput

- *National University games west zone / National Game - kabaddi*

Kushal Tripathi

- *Judo (National)*

Shivam Kumar

- *Badminton (Division)*

Paras Billore

- *Volleyball (Division)*



Departmental

OUTLET

COMPUTER SCIENCE



THANK YOU

DESIGNED & COMPILED BY

PARAS BILLORE

IDEAS & SORTINGS

PALLAVI PARDHI
RESHU WAGHMARE
PRANAV TIWARI
SHIVAM KUMAR

UNDER CO-ORDINATION

DR. MONIKA BHATNAGAR
PROF. GOLDI JARBAIS

UNDER GUIDANCE

DR. SHRIKANT ZADE



MEET YOU IN NEXT EDITION

