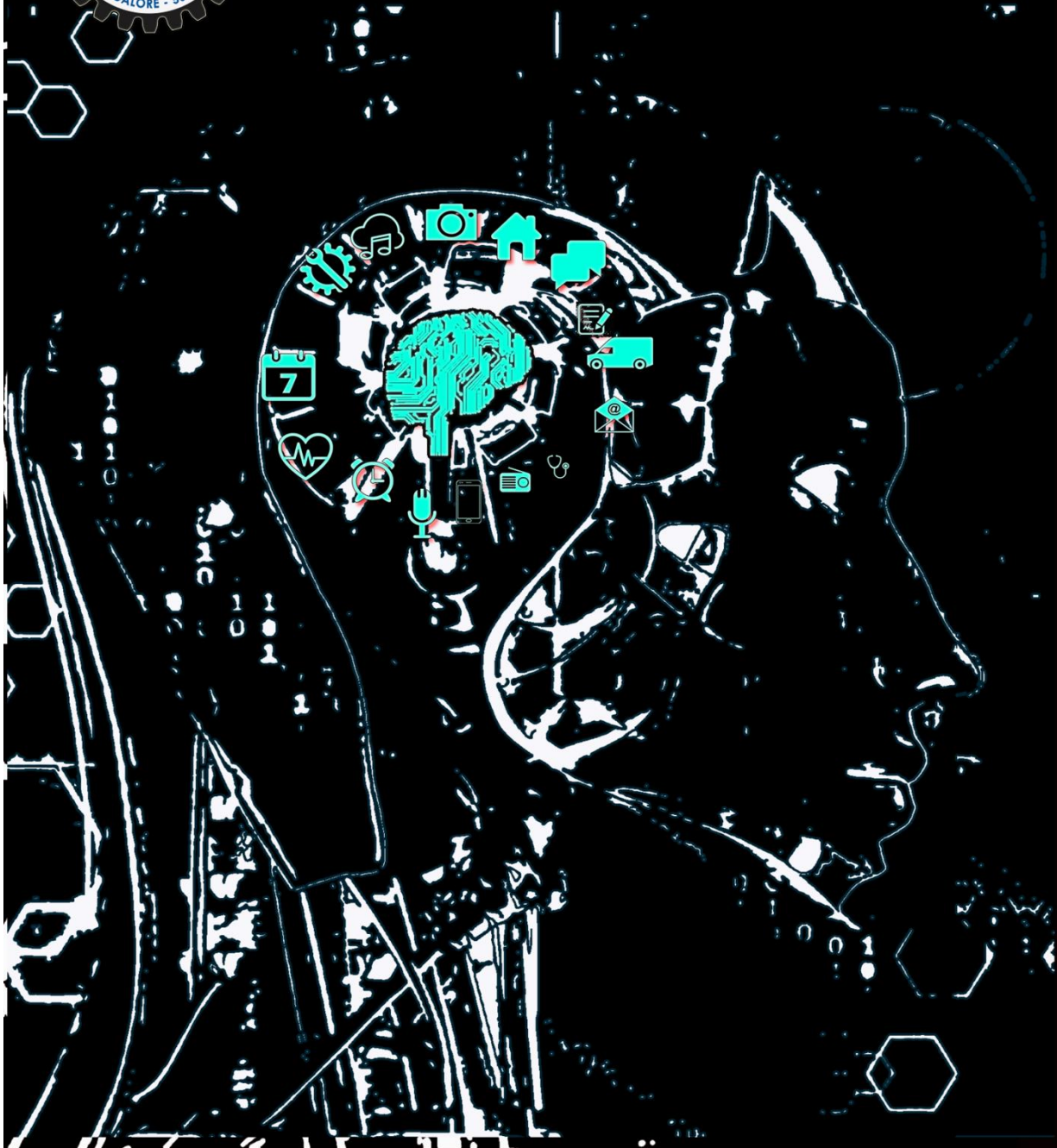# BMS COLLEGE OF ENGINEERING
DEPARTMENT OF COMPUTER APPLICATIONS

STRIDE
STRIVEN TO EXCELLENCE

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FOUNDER

Late Sri B.M.Sreenivasaiah

DONOR TRUSTEE

Late Sri B.S.Narayan

ABOUT THE DEPARTMENT:

The Department of Computer Applications was established in 1984, initially with an intake of 30 students and the department admits 60 students every year at present. From the academic year 1998-99 the college is affiliated to Visvesvaraya technological University, Belagavi. The Department has blend of well-qualified and dedicated faculty members to its credit.

The department has an advanced computer lab equipped with networked high-end ACER (58) and HP (31) machines, to provide state-of-the-art computing facilities to the students and staff. In addition to the main library of the college, the department had full-fledged library with 16,000 books and reference materials.

The department has pioneered in building a strong relation with the industry that has helped the department in conducting various seminars on latest technologies, industrial visits and Entrepreneurship Development Workshops for the benefit of students and staff.

The department also provides live projects and guidance to the students through ICL (Innovative Cluster Lab) which is a part of MOU between BMSCE and Altimetrik, thus helping the students in their campus recruitment. The Data Analytics Research Lab of the department provides an opportunity to derive hidden knowledge from large volume of data sets. The Students of the department, over the years, have been adsorbed by esteemed companies and are considered assets in the industries.

VISION:

To emerge as a premier knowledge center for imparting computing education inculcating human values to solve global challenges.

MISSION:

To empower students with knowledge, skills and attitude to develop comprehensive computing solutions that addresses the needs of academia, industry and society
To excel in education, research, consultancy and Industry collaboration

NSS

In this article, I have given a brief description about NSS which is abbreviated as National Service Scheme. It includes the history and objectives of the youth organization. NSS concentrates mainly on issues like afforestation, protection of environment, eradication of diseases and so on.

HISTORY

The seeds of this organization was sown by none other than the father of our nation Mahatma Gandhi. He said that "The students should do something positive so that the life of villagers might be raised to a higher material and moral level". Dr Radhakrishnan carried forward this idea and recommended introduction of national service into academic institutions. In 1958, the then prime minister Pandit Jawaharlal Nehru directed the ministry of education to introduce national service into academic institutions. Finally in 1969 the union education minister Dr V.K.R.V Rao launched the NSS program in 47 universities covering all states. From then there was no looking back, which started with a group of 40 thousand students in 1969 has now become a force of over 32 lakhs.

SYMBOL OF NSS

The symbol of the NSS is based on the Rath wheel of the Konark sun temple situated in Orissa. These giant wheels of the sun temple portray the cycle of creation, preservation and release. It signifies the movement in life across time and space. It also implies the continuous striving of National Service Scheme for social transformation and upliftment.

The eight bars in the wheel represents 24 hours of a day. The red colour indicates that the volunteer is full of young blood that is lively, active, energetic and full of high spirit. The navy blue colour indicates the cosmos of which the NSS is tiny part, ready to contribute its share for the welfare of the mankind.

OBJECTIVES

The moto of NSS is "NOT ME BUT YOU" which means to work for humanity and involve our fellow beings too. The main objective of National Service Scheme is personality development through service. This organization helps to induce the social welfare thoughts in students, it lets the students to provide service to the society without any expectations. NSS volunteers work round the clock to ensure that every one in our society who is suffering gets every possible service from them by which they can also enhance their mind and lead a life of pride and dignity in the society.
- Making education more relevant to present situation.
- Providing opportunities to the students to play their role in planning and executing development projects.
- Encouraging students and non-students to work together.
- Developing the quality of leadership.
- Participation of youth in national development.

NSS PROGRAMME

REGULAR ACTIVITIES
   NSS volunteer undertake various activities in campus adopted, villages and slums for community service. Duration of these service is 120 hours (20 hours for orientation of NSS volunteers, 30 hours for campus work and 70 hours for community service).

SPECIAL CAMPING PROGRAMME
   NSS organize numerous camps in various parts of the country. Camps are conducted annually. Such camps are usually located in a rural village or remote places. Volunteers may be involved in various activities like creation of durable assets, awareness programme, production oriented programme, relief and rehabilitation, education and recreations, afforestation, medical camps and so on.

CONCLUSION
   MAN IS PRIMARILY A MEMBER OF A SOCIAL COMMUNITY. HE SHOULD NOT ONLY BE CONCERNED ABOUT HIMSELF BUT ALSO FOR THE WELFARE AND DEVELOPMENT OF SOCIETY AS A WHOLE. IT IS TRULY SAID THAT "JANA-SEVA" IS "JANARDHANA-SEVA". THE FEELING OF SELF-SATISFACTION THAT COMES WHEN ONE SEES THE UNSHED TEARS OF JOY IN THE EYES OF ONE WHOSE THIRST HAS BEEN REDUCED AND WHOSE THIRST HAS BEEN SATISFIED, WHOSE NEEDS ARE FULFILLED IS INDEED HEAVENLY.

-GOWTHAM G
V SEM

-   R SURYA PRAKASH
V SEM

Public Speaking Builds Confidence

A person is very comfortable when he is with his own group. He is ready to speak for hours together, arguing, cracking jokes, explaining etc. But when he is made to speak on stage at some occasion in front of audience, he really undergoes stage fear. Fear in this sense means a sort of consciousness, inferiority complex, panicking etc. Fear is the natural enemy of self-confidence as it decreases the ability of an individual to have faith and believe in one's own abilities. Fear largely arises from dwelling on doubtful thoughts, failure and inefficiency. If the mind is allowed freely to dwell on such thoughts, they begin affecting your life and would result in a decreased confidence level. It is due to this fear, that people experience shyness, timidity, bashfulness and diffidence.

Is there any mere solution to come out of fear? Yes! As we say "practice makes man perfect", we should always grab the opportunity when given a chance to speak in public

Fear can be removed by inculcating confidence which results in having a great self-esteem respect and adoration on oneself. Self-talk is also a good confidence builder. Constant self-evaluation is a must for gaining confidence. One must learn by practice to avoid mental confusion which occurs due to replying completely on the opinion and judgement of others.This can help develop self-awareness and acceptance which builds confidence, to face the audience positively.

The following points come to one's mind when he/she
 faces the audience.
- I may go wrong while speaking.
- Others might point out my mistakes.
- Audience might laugh at my language.
- They might compare my speech with others.
- I may forget the points while speaking.
- How do i face the gathering.
- Whether the speech should be done with or without
   script.

All points mentioned above depend on our mental status. First of all we should be optimistic, should have command over the language we speak and have full-fledged knowledge about the content. Next is to make full use of one's strength and gather positive points. One has to remember that nobody is perfect and hence understand that it is common to make mistakes. At the same time, it is advisable not to underestimate oneself.

Before we speak in public, we should always recall 4p's (proper preparation perfect presentation)

If we really want to be the centre of attraction among the group then, always make use of following six points in our speech, such as

1) Stories 2) purpose 3) examples 4) effective presentation 5) confidence 6) humour. The first letter of all six words is termed as SPEECH.

Moreover, the speaker should maintain a good body language, good posture and be well dressed. He should strictly avoid yawning, beeping, stammering, repeating etc. Voice modulation is a must. At the end of the talk, one should be able to answer the questionnaire with utmost confidence. Moreover the speech becomes the best when we have an interaction with the audience. Ultimately, let us all try to be good public speakers by developing the attitude.

"I can do".

- JASHMA S GANAPATHY
III SEM

IMPORTANCE OF FAMILY

A family with family members up to 2nd and/or 3rd generation with grandparents, parents, aunts, uncles, cousins living together is what is called a TRUE family. This was the traditional practice followed by people in olden days, especially Indians, which was one of the main reasons to have a peaceful life with good physical and mental health.

Now, because of advanced lifestyles, young people are departing from their own people even without realizing their importance in life. Increased use of gadgets and social media might be one of the main reasons, as they tend to use it more, giving less time to family, which results in lack of understanding. This is what is leading to mechanical life, suppressing their emotions and attachments. They are missing lot of fun and caring which they are not even aware of.

Just imagine, that joy of having all family members playing around, cracking jokes, creating a lively atmosphere. Their pampering for you, even when you grow up, makes you feel really so lucky, and brings excitement in life. This is the one that is required in one's life, that 'Unconditional Love' that brings down your stress and keeps happy. Elders' guidance, though traditional to hear, is important part of life which puts you on the right track every time.

When it is a joint family, every work and expense is shared among everyone equally and that tiredness or burden is not really felt. One should have a great bonding with family. We should take one chance of getting involved with family, sharing all happiness and sorrows, surrounded with full of love and emotions. This is what brings 'LIFE' to oneself. I personally look at it as a 'HEAVEN' created by god on Earth.

-Pooja V
lll Sem

ART BY NAVEEN

BE THE MASTER OF YOUR OWN THOUGHTS

Thoughts are things. They are powerful. They are preemptive. The very thoughts running through your mind can help to manifest the life of your dreams, or draw you closer to your greatest fears. We all come into our lives with the ability to know what is right for our bodies and minds and act accordingly, but this becomes clouded when we place someone else's judgement above our own.

Power of Mind is very interesting. The conscious mind is everything that is inside of our awareness. This means that any feelings, emotions, sensations, memories, perceptions or anything that you can think about or talk about take place in your conscious mind. Each time we give away our power, we turn away from the soft voice of our higher self and become deafened to its divine guidance. This is the reason so many people feel lost these days -- they have little understanding of who they truly are and what they want to do. The path to freedom is laid by listening to yourself and acting in line with your highest interest and recognizing there are consequences from every action.
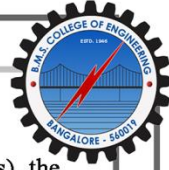
How to listen to yourself:

Listening to your higher self is at the root of all healing. Books, schools,friends and teachers can show you the direction to your good within, but they cannot teach you the path to the guidance of this soft voice. You must be willing to step up to that responsibility. When you take this step up, you'll find your truth. This kind of truth is the ability to see right from wrong, light from darkness, clarity from exaggeration. And it can only come when you are connected to who you really are. Think back to a time in your life when you made a difficult decision, but one that brought peace to your heart. Even if it was hard to act, I'll bet that the outcome was positive in the end. You may not have known it then, but you were experiencing yourself as eternal spirit. All physical urges and material desires fell away and you saw what would be in the highest good.

This is the connection that makes it possible to have complete clarity about any choice placed before you. Thinking for yourself is a learned behaviour, which means you always have the choice to start practicing. No matter how much time you have spent living according to someone else's wishes, it is never too late to turn around and find the freedom that comes from listening to your inner wisdom. When you live according to what is right for you, you'll free yourself from doing things just because everyone else is doing their own wishes, even what is done in the name of health or spiritual development.

The very thoughts running through your mind can help to manifest the life of your dreams or draw you closer to your greatest fear. To cultivate the ability to think for yourself, start looking for answers inside you, and stop looking outside. Minimize your consumption of news. Pause before you take someone's suggestions and reflect first on whether or not it is your truth. Next look away from the urges of your mind. These are the impulses that often come in response to an emotion that you are not allowing yourself to feel. When you say "no" to a scoop of ice cream or an extra bite of food you don't need, your mind grows stronger and becomes less demanding. Feelings flow through you naturally, the way they were intended to move. Then, the interference between you and your higher self falls away.
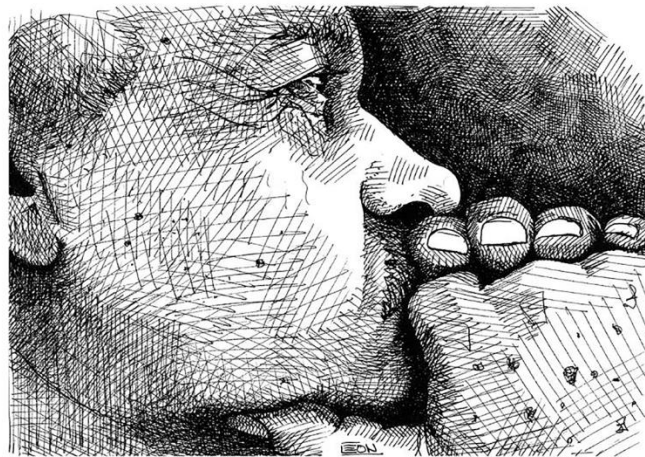
Think of yourself as a computer. The windows you browse (your consciousness), the websites you visit, what you tweet, post on Facebook or Instagram and the kind of content you consume informs your thoughts, opinions and perceptions and guide your understanding of the world. But the impressions do not stop happening once you close the tabs and switch off your browser. The programs installed in the machine continue running and it is they which ensure the efficiency of the machine.

Once you have built a relationship with your true self, you are free to live in ways that reflect who you are. Don't limit yourself by worrying if you'll hurt someone's feelings if you don't want to take part in an activity that doesn't feel good. If your friends will reject you because you are choosing something different, you probably need some different friends.

This life is yours. Your direct experience is your very best teacher. Honor what you learn from it and let that inner voice guide you to say "yes" to the things that will move you along your path and ignore the distractions.

- SUSHMITHA B
III SEM

"Welcome every morning with a smile. Look on the new day as another special gift from your Creator, another golden opportunity to complete what you were unable to finish yesterday. Be a self-starter. Let your first hour set the theme of success and positive action that is certain to echo through your entire day. Today will never happen again. Don't waste it with a false start or no start at all. You were not born to sfail."
                                                                    ~ Og Mandino

DIVERSITY IN INDIA

About Diversity:
India is a land of diversity in race, region, caste, language, mate, landform, flora and fauna and so on. From ancient time till day India has re-painted this diversity from very ancient time. Nature has shaped the country so.

Geographical Diversity:
India is a vast country with great diversity of physical features. Certain parts in India are so fertile that they are counted amongst the most fertile regions of the world while other are so unproductive and barren that hardly anything can be grown there.
The regions of Indo- Gangetic Valley belong to the first category, while certain area of Rajasthan falls under the latter category. From the point of view of climate, there is sharp contrast.
The Himalayan ranges which are always covered with snow are very cold while the deserts of Rajasthan are well known for their heat.

Racial Diversity:
India possesses a rich variety of races. In view of this variety Prof. V.A. Smith says, "From the human point of view India has been often described as an ethnological racial museum in which numberless races of mankind may be studied.

Linguistic Diversity:
India not only posses racial diversity but also linguistic diversity- It is said that almost 400 languages are spoken in India. Some of the prominent language recognized by the constitution includes, Assamese, Bengali, Gujarati, Hindi, Kannada, Kashmiri, Malayalam, Marathi or Punjabi, Sanskrit, Sindhi, Terrill, Telugu and Urdu. In fact it is commonly believed that in India the language changes after every four kooks.

Religious and social Diversity:
In the religious sphere, India posses great diversity. Almost all the principal religions of the world like Brahmanism, Buddhism, Jainism, Islam and Christianity are found here. Most of these religions are further sub-divided into various sects and divisions.
For example, Buddhism is divided into Hinayana and Mahayana; the Jainism is divided into Digambaras and Sitambaras and the Brahmanism is divided into the Vaishnavas, Shivas, Shaktis, Brahma Samaj, Arya Samaj etc. In addition the primitive men have their own peculiar cults which are quite distinct from these major religions.
In the social sphere , the general customs and manners of the people greatly differ. People of different regions use different types of dresses. Their eating habits and customs are also quite different.

UNITY IN DIVERSITY

Political Diversity:
The diversity in culture, races, language, religion etc. greatly stood in the way of political unity in India. As a result from the earliest times, India has been divided into several independent principalities. The rulers of these principalities were always engaged in wars with each other for supremacy. This disunity and friction was fully exploited by the foreign invaders to bring India under their subjugation.

No doubt certain rulers like Chandragupta Maurya, Ashoka, Samudra Gupta, Harsh Vardan and Akbar had subjugated these principalities and established strong empire but they were only handful of the rulers who could accomplish it. For most of the time India presented the spectacle of a divided country.

Concept of Indivisible India:
Ancient Times:
Since the ancient times, the powerful kings were inspired with the ideal of one, indivisible India. This prompted them to make conquests of lands stretching from the 'Himalayas' to the seas 'Chandragupta Maurya' had tried to build one nation in Ancient time. Ancient India was known as 'Hindustan'.

Modern Times:
 Even in modern times, we all celebrate our National festivals Independence Day, Republic Day and Diwali etc. with a sense of unity. These festivals are widely celebrated at schools, colleges, universities, offices, societies across all the states of India. Every Indian watches the Flag Hoisting ceremony at Red Fort and listens to the speech of the Prime Minister. In every state, similar event takes place in which the Chief Minister of the state addresses to the audience through a speech.

Conclusion:
India is a large country. Different regions observe variations in climate. The spoken language of one state is quite different from that of another. They wear different types of garments. They celebrate different festivals and perform varied religious rites. People belonging to diverse cultures belong to different religious faiths. In spite of these diversities, Indians feel a sense of unity and oneness among them. Thus, we conclude that India is a land of Unity in Diversity.

-Ankit Gupta
III SEM

OATH TO SAVE ENVIRONMENT AND STOP USING PLASTIC

Look at the plastic that we all are using every day. Have you ever realized this usage could be dangerous to us and our future generations on this planet, not only human beings it will wipe out entire geological life if we continue the way we are using the plastic. Would you really want to be a part of saving earth from such a disaster?

Than start right here and now!!!!!

Look for alternatives to plastic products…………………

-> Are you wondering if there are any alternatives and could we cut it down plastic really??

->Do we need to buy bottled water, or could you use a refillable solution.

Yes. We can, and it's you and we all together can bring the change as a responsible citizen. Look back and think about the way we used to live without plastic products.

Plastics - They're durable, flexible and long-lasting. They're also everywhere. What's not to love about

these ubiquitous polymers?

->They are made from carbon and other materials then heated, broken down and rebuilt as plastic resin

that can be moulded into almost any shape desired.

-> That carbon, though, typically comes from oil, a fossil fuel-product that's not so good for the environment.

In addition, many types of plastics aren't biodegradable.

Once upon a time, both moms and milkmen filled glass bottles with milk.
Now look around our kitchen we see many plastic water bottles, soda
bottles, food storage containers.
-> We took an oath to use Glass Bottles instead of Plastic

Reusable shopping bags Keep them handy while you step out
for shopping so that you don't forget them to carry.
->We too take an oath not to use Plastic carry bags.

Buy a re- usable coffee cup

Never buy a Fruits or vegetables wrapped in plastic

-GIRIJA KV
III SEM

IMPORTANCE OF CYBER SECURITY IN 2018

So the cyber security concerns are not going to be a surprise factor in this New Year, as well. Being cautious about the situation, the internet experts are investing a lot of time in predicting some cyber security trends.

A lot of factors clearly show up why the cyber security is becoming really important in 2018. Fighting the frauds in real time is a better step than resolving it at a later stage. Let us take a look at the most important cyber security factors that will need much attention and some possible solutions.

1.Information wars:With the significance of data on a global scale, information wars are now becoming more common. With the present trend, it is expected to be more dominant in 2018, as well. More than data thefts for economic needs, personal data is targeted more which leaves people in a vulnerable position.

2.Concerns about big data: The new era enterprises are handling too much data every day than ever before. As data comes in new types and formats, it would be less structured, unlike conventional data.

3.Cloud storage security: Due to minimal storage systems, companies are now largely depending on cloud storage for data keeping. There can be a serious threat to its privacy and mishandling if no proper governance is provided.The problems of insecure access and instability can be a threat to confidential information. Designing a cloud decision model would be a good solution in order to control the person well as its public use.

4.Internet of Things: The modern enterprises are heavily relying on internet technologies for data access and transfer. However, most of them are not so aware of the hidden problems and uses the new age technology without giving much emphasis to safety. However, the vulnerability of personal data can be a serious threat awaiting them.

5.Artificial Intelligence: A remarkable difference in ICS Security can be witnessed with the widespread use of artificial intelligence. Quicker threat detection and faster troubleshooting is the key. It can replace the drawbacks of the shortage of cyber security staffing to a certain extent.

Proper measures need to be taken in order to handle these concerns without making much trouble. It is becoming really important to increase the number of security experts to overcome these concerns and proper quality training needs to be given to them.

ANUSHA.R
III SEM

THE VIJAYALAKSHMI VEG RESTAUTRANT

The 'Vijayalakshmi Veg' restaurant is one of the branches situated in the heart of the Bengaluru city,Basavangudi.This restaurant was started in the year 1989 by T.Chandhra Shetty and sons their first branch was started at Magadi road ,Bengaluru.They totally have 6 branches all over the citylikeM.M.Road,Tannery Road,Tilak nagar,Nagawara,Banaswadi and Basavangudi.

As you enter the restaurant you are welcomed by a magnificent sitting. Seated at any table you have a wonderful view of the workshop-like kitchen where you can see the chefs cooking. The menu offers a wide variety of mouth-watering dishes.They have wide varities of both north and south Indian dishes with meals to starters and soups to desserts..i had a masala dosa with coconut chutney and sambar. They were exquisite.All the products were fresh and the dishes had the warmth of home-made food and the service was amazing.

All over it was great and i had a pleasant dining experience with food of the most refined flavours. For this reason I highly recommend visiting to the Viajayalakshmi veg restaurant.

-Bilagi Suresh Shrinidhi
III SEM

FUTURE OF CODING

Faster, smarter programming, with fewer bugs are the promises coming from the creators of the latest round of languages to capture the attention of programmers. The future of coding requires stability and good practices so our innovations will work. With the increasing size of projects, we need the innovation more than ever. The newer approaches include more structure and more abstraction, allowing the guts of the languages to do what programmers used to have to do themselves. These automated features give the programmer more leverage to concentrate on the big issues. These are some programming languages which may go big in future:

R

At heart, R is a programming language, which focuses on the world's current obsession with using statistics to unlock patterns in large blocks of data. It comes with most standard functions used in data analysis and many of the most useful statistical algorithms are already implemented as freely distributed libraries. It's got most of what data scientists need to do data-driven science. Many people end up using R inside an IDE as a high-powered scratchpad for playing with data. R Studio and R Commander are two popular front ends that let you load up your data and playing with data. R Studio and R Commander are two popular front ends that let you load up your data and play with it. They make it less of a compile-and-run language and more of an interactive world in which to do your work.

Highlights: Clever expressions for selecting a subset of the data and analyzing it.

Limitations: Aimed at desktops, not the world of big data where technologies like Hadoop rule.

Java 8

Java isn't a new language. There are billions of JAR files floating around running the world. But Java 8 is a bit different. It comes with new features aimed at offering functional techniques that can unlock the parallelism in your code. You don't have to use them. You could stick with all the old Java because it still works. But if you don't use it, you'll be missing the chance to offer the Java virtual machine (JVM) even more structure for optimizing the execution. You'll miss the chance to think functionally and write cleaner, faster, and less buggy code.

Highlights: Lambda expressions and concurrent code

Limitations: A bolted-on feeling makes us want to jump in with both feet and use Scala.
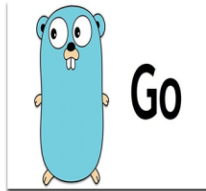
Swift

Apple saw an opportunity when programming newbies complained about the endless mess of writing in Objective C. So they introduced Swift and strongly implied that it would replace Objective C for writing for the Mac or the iPhone. They recognized that creating header files and juggling pointers were antiquated. Swift hides this information, making it much more like writing in a modern language like Java or Python. Finally, the language is doing all the scut work, just like the modern code. The language specification is broad. It's not just a syntactic clean-up of Objective C. There are plenty of new features, so many that they're hard to list. They can work with a cleaner syntax and let the language do the busy work. Highlights: Dramatically cleaner syntax and less low-level juggling of pointers.

Limitations: The backward compatibility requires thinking about bits and bytes occasionally.

Go

When Google set out to build a new language to power its server farms, it decided to build something simply by throwing out many of the more clever ideas often found in other languages. They wanted to keep everything, as one creator said, "simple enough to hold in one programmer's head." There are no complex abstractions or clever metaprogramming in Go—just basic features specified in a straightforward syntax.This can make things easier for everyone on

because no one has to fret when someone else digs up a neat idea from the nether reaches of the language specification.

Highlights: Just a clean, simple language for manipulating data.

Limitations: Sometimes a clever feature is needed.

Less.js

Just like CoffeeScript, Less.js is really just a pre-processor for your files, one that makes it easier to create elaborate CSS files. Anyone who has tried to build a list of layout rules for even the simplest website knows that creating basic CSS requires plenty of repetition; Less.js handles all this repetition with loops, variables, and other

basic programming constructs. You can, for instance, create a variable to hold that shade of green used as both a background and a highlight colour. If the boss wants to change it, you only need to update one spot.There are more elaborate constructs such as mixins and nested rules that effectively create blocks of standard layout commands that can be included in any number of CSS classes. If someone decides that the bold typeface needs to go, you only need to fix it at the root and Less.js will push the new rule into all the other definitions.

CUDA

Most people take the power of their video cards for granted. They don't even think about how many triangles the video card is juggling, as long as their world is a complex, first-person shooter game. But if they would only look under the hood, they would find a great deal of power ready to be unlocked by the right programmer. The CUDA language is a way for Nvidia to open up the power of their graphics processing units (GPUs) to work in ways other than killing zombies

or robots. The key challenge to using CUDA is learning to identify the parallel parts of your algorithm. Once you find them, you can set up the CUDA code to blast through these sections using all the inherent parallel power of the video card. Some jobs, like mining Bitcoins, are pretty simple, but other challenges, like sorting and molecular dynamics, may take a bit more thinking. Scientists love using CUDA code for their large, multidimensional simulations.

Highlights: Very fast performance, at least for parallel code.

Limitations: Identifying the easily parallelizable sections of code isn't always easy.

-SWATI HEGDE
III SEM

ಅಮ್ಮ

ಮನೆಯೇ ಮೊದಲ ಪಾಠಶಾಲೆ
ಜನನಿ ತಾನೇ ಮೊದಲ ಗುರುವು||
ಜನನಿಯಿಂದ ಪಾಠ ಕಲಿತ ಜನರೇ ಧನ್ಯರು||

ಅಮ್ಮ ಎಂಬ ಎರಡಕ್ಷರದ ಪದದಲ್ಲಿ ಅದೆಂಥ ಶಕ್ತಿ ಇದೆ. ಈಗ ತಾನೇ ಮಾತು ಕಲಿಯುತ್ತಿರುವ ಪುಟ್ಟ ಕಂದ ನುಡಿಯುವ ಮೊದಲ ಮಾತು ಅಮ್ಮ. ಗರ್ಭದಲ್ಲಿರುವ ಮಗು ಪುಟ್ಟ ಕಾಲುಗಳಿಂದ ಒದೆಯುವಾಗ ತಾಯಿ ಅದೆಷ್ಟುಸಂಭ್ರಮ ಪಡುತ್ತಾಳ. ಮಗುವಿನ ಬರುವಿಕೆಗಾಗಿ ಅದೆಷ್ಟೋ ನೋವನ್ನಾದರು ಸಹಿಸಿಕೊಂಡು ಕಾಯುತ್ತಾಳ. ನವ ಮಾಸಗಳ ಕಾಲ ಮಗುವನ್ನು ಹೊತ್ತು ಹೆರುವ ತಾಯಿ, ಮಡಿಲಲ್ಲಿ ಮಲಗಿ ನಗುತ್ತಿರುವ ಕಂದನಲ್ಲಿಯೇ ನೋವನ್ನು ಮರೆಯುವಳು.

ತಾಯಿ ಎಷ್ಟೇ ಕಷ್ಟದಲ್ಲಿ ಇದ್ದರು ಸದಾ ಮಗುವಿನ ಖುಷಿಯನ್ನೇ ಬಯಸುತ್ತಾಳ. ತಾನು ಅನುಭವಿಸಿದ ಕಷ್ಟಗಳು, ನೋವುಗಳು ಮಗುವಿಗೆ ಬರಬಾರದು ಹಾಗೆಯೇ ತನಗೆ ಸಿಗದೇ ಹೋದ ಎಲ್ಲಖುಷಿಯೂ ಮಗುವಿಗೆ ಸಿಗಲಿ ಎಂದು ಶ್ರಮಿಸುತ್ತಾಳ. ಅಮ್ಮನ ಮಡಿಲು ನಮ್ಮೆಯ ಒಡಲು, ದುಃಖವಾದರೂ ಸರಿ ಸುಖವಾದರೂ ಸರಿ, ಎಲ್ಲದುಗುಡ, ಗೊಂದಲ, ಸಂತೋಷವನ್ನು ಅವಳಲ್ಲಿ ಹೇಳಿಕೊಂಡರೆ ಅದೆಷ್ಟೋ ಸಮಾಧಾನ. ಎಷ್ಟೇ ದೊಡ್ಡವರಾದರು, ದೊಡ್ಡ ವ್ಯಕ್ತಿಗಳಾದರೂ ತಾಯಿಯ ಪ್ರೀತಿಯ ತೋಳುಗಳಲ್ಲಿ ಬಂಧಿಗಳು ನಾವೆಲ್ಲ. ಅಮ್ಮನ ಜೊತೆಯಲ್ಲೇ ಇರುವವರೆಗೂ ಅವಳ ಬೆಲೆ ನಮಗೆ ತಿಳಿಯುವುದಿಲ್ಲ. ಮನೆಯಲ್ಲಿ ಯಾವ ಬದಲಾವಣೆಗಳಾದರು ಮೊದಲ ಕೋಪ ಮಾಡಿಕೊಳ್ಳುವುದು ಅಮ್ಮನ ಮೇಲೆಯೇ. ಅಮ್ಮನಿಂದ ದೂರ ಉಳಿಯುವ ಸಂದರ್ಭ ಬಂದಾಗಲೇ ಅಮ್ಮನ ಅವಶ್ಯಕತೆಗಳು ತಿಳಿಯುವುದು. ಅಮ್ಮನ ಬೆಚ್ಚಗಿನ ಅಪ್ಪುಗೆಯಿಂದ ವಂಚಿತರಾದ ಅದೆಷ್ಟೋ ಮಕ್ಕಳನ್ನು ನೋಡಿ ಅರಿತುಕೊಳ್ಳಬೇಕು ನಾವೆಷ್ಟು ಅದೃಷ್ಟವಂತರು ಎಂದು.

ಎಟ್ಟೋ ಇರುವ ಕಲ್ಲುಬಂಡೆಯನ್ನು ತಂದು ಶಿಲ್ಪಿ ಸುಂದರ ಮೂರ್ತಿಯಾಗಿ ರೂಪಿಸುವಂತೆ, ಪುನರ್ಜನ್ಮ ಪಡೆದು ಮಗುವಿಗೆ ಜನ್ಮ ನೀಯುವುದಲ್ಲದೆ, ಮಗುವಿನ ಜೀವನವನ್ನು ಸುಂದರ ಪ್ರತಿಮೆಯನ್ನಾಗಿ ರೂಪಿಸುವ ಜೀವನ ಶಿಲ್ಪಿ. ಅವಳು ಜನ್ಮ ನೀಯುವ ತಾಯಿ, ಜೀವನ ಶಿಕ್ಷಣ ನೀಯುವ ಶಿಕ್ಷಕಿ, ತಪ್ಪು ಮಾಡಿದಾಗ ಶಿಕ್ಷಿಸುವ ತಂದೆ, ನಮ್ಮನು ರೂಪಿಸುವ ಶಿಲ್ಪಿ, ವೈದ್ಯೆ ಹೀಗೆ ಎಲ್ಲ ಪಾತ್ರವನ್ನು ನಿರ್ವಹಿಸುತ್ತಾಳ.

ಹುಟ್ಟುವಾಗ, ಅಳುವಾಗ, ನಗುವಾಗ, ಬಿದ್ದಾಗ ಯಾವಾಗಲೂ ಜೊತೆ ಇರುವವಳು ಅಮ್ಮ. ಅವಳಿಗೆ ಅವಳೇ ಸಾಟಿ. ಏಳು ಜನ್ಮ ಹುಟ್ಟಿ ಬಂದರೂ ತಾಯಿಯ ಋಣ ತೀರಿಸಲು ಅಸಾಧ್ಯ. ತಾಯಿಯ ಸ್ಥಾನವೇ ಹಾಗೆ, ಬೇರೆ ಯಾರಿಂದಲೂ ಅವಳ ಸ್ಥಾನವನ್ನು ತುಂಬಲು ಸಾಧ್ಯವಿಲ್ಲ.

ಮಕ್ಕಳಿಂದ ಕಿಂಚಿತ್ತೂ ಅಪೇಕ್ಷಿಸಿದ ಅಮ್ಮನನ್ನು ಕೊನೆಯವರೆಗೂ ಪ್ರೀತಿಯಿಂದ ನೋಡಿಕೊಳ್ಳುವುದು ನಮ್ಮ ಕರ್ತವ್ಯ. ಮಕ್ಕಳ ಭವಿಷ್ಯಕ್ಕಾಗಿ ಜೀವನವನ್ನು ಮುಡಿಪಾಗಿಟುವ ಅವಳನ್ನು ಮುದ್ದಿನಲ್ಲಿ ಮಗುವಿನಂತ ನೋಡಿಕೊಂಡರೆ ನಮ್ಮ ಜೀವನಕ್ಕೂ ಒಂದು ಅರ್ಥ. ತಾಯಿಯೇ ದೇವರು ಎಂಬ ಮಾತಿದೆ. ದೇವರು ಎಲ್ಲ ಕಡೆ ಇರಲು ಸಾಧ್ಯವಿಲ್ಲ ಎಂದೇ ತಾಯಿಯನ್ನು ಸೃಷ್ಟಿಸಿದ್ದಾನೆ. ಜಗತ್ತಿನ ಪ್ರತಿಯೊಬ್ಬ ತಾಯಿಗಳ ಗೌರವ ಸಲ್ಲಿಸುವ ಕಿರು ಯತ್ನ ಈ ಪುಟ್ಟ ಲೇಖನ.

-PRAJNA BHAT
III SEM

Jobs of Future

When you see an IT trend with staying power, you can expect new job titles and roles to follow. So what does the next wave hold for IT jobs? Read on for insights and predictions from a wide range of technology and business leaders on important IT titles of the near future.

Machine learning engineer

This is one of the top two emerging IT titles, according to recruiting firm Mondo, based on 2017 placement data in its 11 primary U.S. regions. "Machine learning is a growing, in-demand skill set that companies are beginning to hire for as they realize more fully the potential AI-driven tech that functions semi-autonomously provides and start to invest more resources into AI functionality, specifically for machine learning needs," says Stephen Zafarino, Mondo's senior director of recruiting. You'll find a bunch of variations of this title that reflect the growing role of machine learning in a wide range of businesses and industries, such as "machine trainer," "machine tutor," "machine tester," and "machine learning expert." It's also an area that overlaps other increasingly crucial roles and business drivers, such as data analytics. "Machine learning is still a misunderstood concept, but it is increasingly important in everything from finance to social media," says Lucy Wei, head of talent at AxiomZen. "There's an overabundance of data and machine learning is how that data is practically employed and learned from; it combines experience with statistical data to develop [business] uses."

IoT architect (and friends)

"IoT architect" is the other top title and field based on Mondo's placement data. "The IoT industry is exploding rapidly, and businesses are looking to understand how best to integrate IoT devices into their business offerings, while also ensuring a higher standard of security given the recent developments in IoT cyberattacks," Zafarino says. But IoT is also driving a slew of of other new IT titles, according to Mark Rheault, founder and CEO of Infinite Leap. Try the likes of "IoT solutions designer" or "IoT solutions architect" on for size. Rheault points to another emerging title here that tweaks the hot trend and traditional title formula: Just marry two massive new technology concerns together: "IoT data scientist" fits the bill. The roles themselves are anything but formulaic, however. They indicate IT's increasing role in leading business strategy. "The areas of IT expertise for these types of positions are at the intersection of sensory data, cloud computing, and mobile applications," Rheault says. "These roles, however, require not only IT skills but also a deep understanding of business operations and the value IoT data can provide to drive efficiencies."

DevOps Engineer

This one isn't so much emerging as already popular. It's a good example of how quickly a new title can gain a foothold, even when people don't necessarily agree on what the title means — or whether it should exist at all. (You can expect similar debates to spring up around some of the newer titles on this list.). "This title shouldn't exist — [DevOps] is more of a mindset, culture, or collection of people — but it's increasingly used as shorthand used as shorthand for engineers or sysadmins who have a competency in deployment and testing," says Justin Kan, infrastructure engineer at ZenHub.

AI lawyer

There's been plenty of ink spilt over "robot lawyers," but here, the title refers to an actual person, one who's as much technologist as the legal eagle. As people increasingly interact with and consume AI and AI-like services, there's a brave new world of implications for what happens when things go wrong. "A whole field of law, responsibility, and liability is emerging, and a future technologist will be required in the legal system to tackle the pace of change," says Kyle White, CEO and co-founder of SaaS provider VeryConnect.

Chief data officer

Ready for another CxO title in IT? Jim Eichmann of BillTrust says we should expect one, and he's already wearing it: chief data officer. Choose your own stats; they all pretty much say the same thing: We're generating an always-increasing amount of data."The chief data officer is an emerging IT leadership position at many companies right now, but I expect it to become commonplace within the next decade," Eichmann says. "CISOs and CSOs were the hot titles on the rise a couple years ago, but now CDOs are gaining traction in the C-suite due to the abundance of data and need for data governance."

- SIDDHARTH RANAWAT
III SEM

- DEEKSHITHA SHASTRY
V SEM

TEENS AND CELL PHONE ADDICTION

Teens are extremely vulnerable to developing a cell phone addiction. The human brain isn't fully developed until about 25 years of age. Adolescents who become dependent on their smartphones could experience negative alterations in brain development.

- There is decreased brain connectivity in teens who suffer from a cell phone addiction.
- Problems in the parts of the brain that are responsible for decision-making, impulse-control, and emotional regulation.
- Teens with a smartphone addiction are more likely to drink alcohol, use tobacco, and have poor diets.
- These teens may experience social isolation due to excessive cell phone use.

If you're concerned about your teen's problematic cell phone use, there are many different treatment options available. Call the number above to speak to a treatment specialist immediately.

How to Help a Loved One with a Smartphone Addiction:

If you've been upset or frustrated by your loved one's excessive phone use while in your presence, you are not alone. Your loved one may suffer from a cell phone addiction or nomophobia, the fear of being without a mobile phone, if he or she exhibits these signs or symptoms:

- Appears anxious when the phone battery is low.
- Panics if the cell phone is misplaced or service is unavailable.
- Spends more time connecting online than connecting with people in real life.
- Sleeps with the smartphone on or under the pillow.
- Uses the phone in dangerous situations such as driving.
- Has his or her smartphone on the table during meals.
- Believes the cell phone to have rung or vibrated when it hasn't.

This is not a complete list of signs and symptoms but it includes some of the common signs that a loved one may be suffering from a smartphone addiction.

Although cell phones allow individuals to have unlimited access to information and to connect with others in a way otherwise thought impossible, there are many harmful and disturbing effects of smartphone dependence. Cell phone addiction sometimes referred to as problematic mobile phone use, is a behavioral addiction thought to be similar to that of an Internet, gambling, shopping, or video game addiction and leads to severe impairment or distress in one's life.

- In a study conducted by Baylor University, cell phone addiction was linked to
  - Impulsiveness and materialism.
  - A preoccupation with material objects as opposed to intellectual, spiritual, or cultural values.
- The obsessive use of a smartphone has been compared to that of credit card misuse and compulsive buying.
- Cell phones have become a representation of social status and thus, there is pressure to own the newest release and to have all of the best applications.
- People suffering from this condition oftentimes have what has been coined "nomophobia," or the fear of being without one's cell phone.
- Problematic cell phone users can develop a social media addiction as well, which has a number of harmful effects on the user, such as
  - Impaired self-esteem.
  - Impaired work performance.
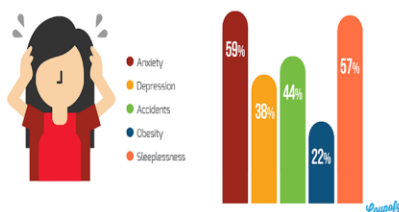 - Interpersonal conflicts.

With the widespread accessibility of cell phones at a younger age now, teenagers are especially prone to developing an addiction to their cell phones or social media. Whether you or a loved one suffers from a cell phone addiction, there is hope for recovery.

Below are some more statistics associated with smartphone use:
- 60% of U.S. college students consider themselves to have a cell phone addiction.
- 71% of people sleep with or next to their cell phones.
- 35% of people think of their cell phones when they wake up while only 10% of people think of their significant others.
- 44% of 18-24-year olds have fallen asleep with their phone in their hand.
- 36% of people check their phones constantly, while 54% of young adults are checking constantly.
- Nearly 40% of people never disconnect from cell phones, even while on vacation .
- 44% of Americans say they couldn't go a day without their mobile devices.

SIDE EFFECTS OF SMARTPHONE USAGE ACCORDING TO MILLENNIALS

What side effects do millennials consider as the most common among compulsive smartphone users?

- Anxiety — 59%
- Depression — 38%
- Accidents — 44%
- Obesity — 22%
- Sleeplessness — 57%

Coupofy

Some major signs and symptoms of smartphone addiction include:
- Tolerance.
- Withdrawal.
- Failed attempts to cut back on smart phone use.
- Loses track of time when using a mobile phone.
- Uses a cell phone in order to deal with unwanted emotions.
- Text neck.
- Digital eye strain.

-JAYANT KUMAR SAHU
III SEM

A Pet Sanctuary Near You

We humans are naturally wired to be compassionate. Every time you give your time and love to others, there is an overwhelming sense of joy that comes from within. What if one of many weekends, when you plan to hang out with your friends,the fun of being with friends while making some animals happy, is even more meaningful, isn't it?

You learn a lot about them when you spend adequate time at an animal shelter; everyone who has been there speaks about their profound experiences and gives us a solid reason why we must visit an animal shelter at least once in our life. Do you love animals but are not in a position to adopt one? Visit a shelter and spend some quality time with the inhabitants and they would be more than happy to share their time and love with you. All they need is your time.

PRANI an animal sanctuary beats the thirst for animal love within love. This is a great initiative by a group of volunteers to rescue farm animals, house them in enclosures and tame them so that they are friendly with humans. Housed in a farm like setting off Kanakapura road, PRANI is just where you need to foster a love for animals and the outdoors. Unlike Zoos, people will get to closely interact with various animals, including petting them or feeding them.

"We were taken inside the Aviary where we had outstretched arms where birds came to feed on the seeds on our palm, or taken inside the Emu enclosure to stroke their feathers. Other highlights included a rescued retired race horse, a fancy horse, a 5 colored sheep, couple donkeys, cows, rabbits, ducks, turkeys and several species of rodents and iguanas to name a few" a visitor quotes.

At 400/- per head entry, it is reasonable considering they are not funded otherwise. They also offer simple village meals at 150/- per head and a choice of fresh juices too. You are also free to carry your own picnic basket if you prefer. There is a tree house within which one can have meals.

Rediscover Yourself!
You know those people who are so full of positive vibes and enthusiasm that they inspire you to become a better version of yourself? Animals are among those "people" Innocent, forgiving and trusting, their positive energy is infectious. Connect with them. Hug a puppy, kiss a donkey's forehead, and talk to a cow. Reconnect with nature and rediscover yourself.

Where to head: Prani the pet sanctuary, Somanahalli Village,Off Kanakapura Road, Bengaluru, Ph.: +91 97420 84335

Chithra B S
III sem

IMPACT OF ARTIFICIAL INTELLIGENCE IN THE FUTURE

WHAT IS AI?

From SIRI to self-driving cars, artificial intelligence (A.I)is progressing rapidlyWhile in the science fiction often portrays as an AI as robots with human-like characteristics, AI can encompass anything from the Google's search algorithms the to the IBM's Watson to autonomous weapons.

Artificial intelligence today is properly known as narrow AI (or weak AI), in that it is designed to perform a narrow task (e.g. only facial recognition or only internets searches or only driving a car). However, the long-term goal of many researchers is to creategeneral AI (AGI or strong AI). While narrow AI do may outperform humans at whatever its specific task is, like playing a chess or solving equations, AGI would outperform humans at nearly every cognitive task.

WHY RESEARCH AI SAFETY?

In the near term, the goal of keeping AI's impact on the society beneficial motivates the research in many areas, from economics and law to technical topics such as verification, validity, security and control. Whereas it may be little more than a minor nuisance if your laptop crashes or gets hacked, it becomes all the more important that an AI system does what you want it to do if it does controls your car, your airplane, your pacemaker, your automated trading system or your power grid. Another short-term challenge is preventing a devastating arms race in lethal autonomous weapons.

In the long term, an important question is what will happen if the question for strong AI succeeds and an AI system becomes better than humans at all cognitive tasks. As pointed out by I.J.Good in 1965, designing smarter AI systems is itself a cognitive task. Such a system could potentially undergo recursive self-improvement, triggering an intelligence explosion leaving human intellect far behind.

HOW CAN AI BE DANGEROUS?

Most researchers agree that a super intelligent AI is unlikely to exhibit human emotions
like love or hate and that there is no reason to expect AI to become intentionally benevolent or malevolent.

1. The AI is programmed to do something devastating: Autonomous weapons are artificial intelligence systems that are programmed to kill. In the hands of the wrong person,these weapons could easily cause mass casualties. Moreover, an AI arms race could inadvertently lead to an AI war that also results in mass casualties. To avoid being thwartedby the enemy, these weapons would be designed to be extremely difficult to simply turn so humans could plausibly lose control of such a situation.

2. The AI is programmed to do something beneficial, but it develops a destructive method for achieving its goal: This can happen whenever we fail to fully align the AI's goals with ours, which is strikingly difficult. If you ask an obedient intelligent car to take you to the airport as fast as possible, it might get you there chased by helicopters and covered in vomit, doing not what you wanted but literally what you asked for.

-CHAITHRA R
III SEM

The Importance of Health and Fitness in Life

In this busy world everyone is busy with setting their career, making money, achieving their goals in this journey they don't realise how important health and fitness is and often underestimate, the importance of good health, there are so many new diseases and cases of obesity which people are being forced to struggle with. Unfortunately, in most cases, these problems are self-inflicted. That's right, you need to pay attention to your health and your fitness if you want to live a healthy life. Without the proper nutrition there is no way to guarantee your fitness either. While exercise is important undoubtedly, you will need to maintain a proper diet if you want to be healthy.

Aspects of Health

Physical:

Exercise is so important when it comes to your personal life. There is so much research which has shown that people who exercise on a regular basis have a better quality of life and live longer as compared to those who don't. There is cardiovascular exercise, stretching, strength training, cored stability and so much more that you need to work on.

Nutrition:

Having the proper nutrition is very important as far as health is concerned. The human body requires sufficient vitamins, protein, fat, minerals, etc. in order to function efficiently. It will also help to strengthen the immunity of your body. And when you have a solid immunity, your body will be safe from diseases and you will not need medical drugs for anything.

Physiological

Rest and relaxation is very important so that your body and mind can recuperate. Just like your body's muscles get sore, your brain also requires time so that it can cool down. Without getting enough relaxation and rest, your body is going to start functioning inefficiently and performance will decrease too. There are many complications which may arise at such times. This is where getting sufficient sleep is very important. Relaxing between physical activities is essential for the proper growth of your body.

Full Day Routine to be Fit and Healthy

6:30 – 7:00 am:

Drink two cups of water with lemon each morning. This simple habit keeps you hydrated, reduces constipation and is packed with lemon juice's nutrients and phytochemicals.

7:00 – 7:30 am:

Do 30 minutes of cardiovascular exercise on an empty stomach. This will reduce elevated morning cortisol levels and burn extra body fat. In fact, an older study published in British Journal of Nutrition showed that people can burn up to 20 percent more body fat when exercise is done in the fasted state in the morning than when it's done later in the day. Just goes to show you, timing is everything.

7:30 – 7:45 am:

Breakfast is often described as the most important meal of the day, providing as it does sustenance and energy for whatever activities lay ahead so have a nutrition full meal.

During your day:

Have a snack that contains protein at mid-morning and mid-afternoon each day. Pack two snacks and a lunch for the office each day. Options can include a small apple with some almonds, a boiled egg, tomatoes with balsamic dressing and a piece of feta cheese, hummus with veggie sticks and 4%Allegro cheese, or a protein bar. Ensure you are eating every three hours, and aim to never miss your afternoon snack. Studies show individuals who eat frequent small meals enjoy greater weight loss. Eating regularly will avoid blood-sugar highs and lows that can affect your mood and energy.

Keep a big bottle for water on your desk and fill it each morning, keeping in mind that you should finish it by the end of the day. Fill a thermos or a nice teapot with hot water, put in three or four green tea bags and let it steep. Drink the tea throughout the day in addition to your water.

Get in a workout:

Aim to do a 30-minute, high-intensity resistance-training circuit three times each week to maintain metabolically active muscle and improve insulin sensitivity. Be sure to follow up your workout with a sugar-free drink that includes amino acids and antioxidants, which aid energy, exercise recovery, insulin balance and cellular repair.

6:00 – 8:00 pm:

Eat your dinner two hours before bed to promote uninterrupted sleep. Your plate should include lots of fibrous carbohydrates, made up of one-third salad and one-third veggies. The other third should be your protein. Your fats may fall on top of your carbohydrate selections (as an olive oil or salad dressing, for instance) or be consumed within your protein selections. I recommend including a complex carbohydrate like brown rice, sweet potato, or squash with your evening meal. Take your second dose of omega-3 fish oil capsules with this meal.

9:30 – 10:00 p.m.:

Spend some time alone, even if it is just 15 minutes, breathe deeply, meditate, ponder, review your goals, or write in a journal to wind down before bed and collect your thoughts. Designate this time as your time daily.

10:30 – 11:00 p.m.:

Aim to get to bed before 11pm, sleeping in a darkened room for optimal recovery and to maximize the release of melatonin. Most sleep experts agree that seven to eight hours a night is optimal. However, some people may require more or less sleep than others. If you wake without an alarm and feel refreshed when you get up, you're likely getting the right amount of sleep for you. If you have trouble sleeping due to high stress levels, you can add in a magnesium glycinate supplement.

Benefits of being Fit and Healthy
  -Prevent risk factors for heart disease: blood cholesterol, diabetes and hypertension
  -Improve muscle and bone health
  -Control weight
  -Good and happy life
  -Confidence
  -Good physical appearance

Here by I hope if you follow this in your Daily life it will be very helpful. It will take Time, Patience, Discipline, Dedication. Nothing is easy in this world. Staying fit will make your life easy and happy. Just take a moment to think about how important health is.

~**Bharath R**
III SEM

Women Empowerment

WomenEmpowerment: Key to Social and Economic Growth Rural-urban divide:
Women empowerment can be defined as a process leading to enhancing women's control over financial, human and intellectual resources in society. In any nation, the women empowerment can be measured by extent of their involvement in social, economic and political fields. Women can be made said to be truly empowered only when all the factors such as self-worth of women, their right to control their own lives, their ability to bring about social change, are addressed simultaneously.

Need for Holistic Empowerment of Women:
 Participation of women in politics through reservation is undoubtedly a positive development of recent times. Still, only the election should not be the end, but the active participation of women in decision making process and in planning and implementation of development programmes is also required.
Women's lives must converge effectively and all the efforts in this direction should be focused towards the goal to bring about a social change leading to manifestation of balance between male and female forces in the society.

Ground Reality about Women Empowerment:
Though women comprise almost half of the total percentages of world's population, they are still deprived of their rights in most of the developing countries across the globe. Particularly in the South and East Asian nations apart from the African countries, the women are leading deprived lives, due to prevalent gender discrimination

Rural-urban Divide :
 Situation of women in rural areas is more miserable than their counterparts living in urban spaces. It has been widely prevalent that the women are mostly deprived of an equal status as compare to men and thus they remain as passive beneficiaries in the societies in these countries. They remain powerless, due to their less participation and involvement in the generation of resources critical for development.

Government   Initiative :
Government should take every possible action to remove all gender gaps and inequalities pertaining to women's livelihoods and participations in the labour market through the creation of employment with Secure Income, which   has been shown to advance women's empowerment and enhance their reproductive health. Legislation ensures pay for equal work or for work of equal value should be instituted and enforce.

-Ankit Gupta
III SEM

THE APPLE OF MY EYE

There was a time,
when not so long ago
a newborn had cried her first tear
as she entered into a strange new world.

A man held her with a certain strength,
as tears of confusion ran down the
newborn's face.
He knew in his heart this girl was special,
and with that, he vowed to give this child
a place in his heart.

As time went by,
the girl had begun to grow.
She had learned to talk.
and she learned how to walk.
With each step the girl took,
the man had been by her side,
to guide her when she didn't know where
to go,to comfort her whenever she fell.
His mission every day,
was to make this girl smile,
to hear her young innocent laugh,
to make her giggle.

More years had come and gone,
as the girl was in her first year of middle school.
There were days where she would come home with
tears in her eyes,
that would send a sad, cold knife through the man's
heart.

He would sit there and console her for as long as
needed,
and had wiped salty tears from her cheek
as he told her that it would be okay,
that it wasn't the end of the world.

Time went on,and it was the girl's middle school
graduation.
As she and her fellow classmates wore caps and
gowns,the man and his wonderful wife were
watching with pride.

Never had the two been so proud,as
when the girl went up to accept her
award.Standing there with the girl in the
lens of a camera,he snapped multiple
pictures to cherish the moment.

The man had been with the girl through
thick and thin, through bloody cuts and
ugly bruises, through smiles and tears,
through screams of anger and shrieks
of laughter.
This man had not only kept his vow to
that newborn,
but did so much more.

Only a man like him could give his love,
so unselfishly. That's why he isn't only
an amazing father, but also the most
amazing friend I could ever ask for.

I will always be your Baby girl,
and you will always be my dad.
I know I will always be the luckiest,
to have the best dad any girl could have
had.
My Daddy, I love you with all my heart,
much more than I ever say.
You are my world, my everything,
each and every day.

-RANJITHA S
III SEM

SNEHA B MALAGI
III SEM

SANSKRIT AND COMPUTERS

"Sanskrit is a scientific language."
"Sanskrit is the best language for computer programming."
"NASA to use Sanskrit as a programming language."

These are article titles and snippets often listed when one looks up "Sanskrit" on their favorite search engine. They're flooded with websites that posit without any scope of plausible deniability that NASA is very involved in Sanskrit studies. They make claims that the US actively urges their young to learn Sanskrit and that American kids were imparted Sanskrit lessons after "Sanskrit experts refused to offer help in the scientific concept of the language" apparently.

Of all the claims, the most difficult one is that NASA had been working on a project called "Mission Sanskrit" because the people at NASA are supposed of the opinion that Sanskrit is the best language for computer programming. This is something that could be fact-checked in under a minute and found to be false but that doesn't seem to be happening.

This would not have been a serious problem if the hoax remained confined in the minds of the believers, who would all individually, in their own private moments of curiosity, come to find out the truth about it sooner or later. But these lies have repeated so many times, that people can no longer realistically come to nip it in the bud. It has turned into a feedback loop with the source being a figurative echo chamber of websites that simply affirm without linking to their sources of that supposed information.

Sure, the internet is filled with hoaxes and I think most people will agree with me in that the best way to catch a hoax is to be tricked into believing in them once or twice and learning to see the pattern in what eventually becomes a series of obvious falsehoods. However, in this particular case, for most people who were conned into believing in the prowess of this ancient nigh dead language, this is not just a matter of discovering they were wrong about it. People have a strong sense of belongingness with Sanskrit and they will uncritically assimilate anything good that is said about the language. This is not helped by the fact that it appears to them that an organization, known for its great strides in the fields of aeronautics and astronautics, seems to support those claims.

This has got so severe, we have politicians claiming that Sanskrit is necessary for computer literacy, NASA plans on using Sanskrit for their computers, and that the US and UK teach their children Sanskrit. We often hear about Sanskrit learning being made a mandatory subject for some bizarre reason.

A more recent bout of utter idiocy comes in the form of Smriti Irani requesting IITs - the most sought after institutes for engineering in India - to teach Sanskrit because of some misguided notion that it might help uncover scientific discoveries documented in Sanskrit literature.

There, of course, have been articles by rational thinkers, here and there, who have attempted to right this wrong by showing that the claims about Sanskrit just don't hold up to scrutiny. They often get dismissed by the believers with many of them accusing the writers of racism, anti-nationalism, jealousy, and hatred of Sanskrit and India. They could repeatedly mention that there is no evidence NASA has ever pursued anything with regard to Sanskrit, with no tangible effect other than seeing their articles shared among the reasonable ones in the crowd. There is only one way I see out of this mess and that is for NASA to make a statement about this matter and put it to rest once and for all.

I know NASA has a lot on its plate and it isn't the best use of their time to take a break from innovating in order to clarify that the outrageous claims made about them are hoaxes. I, however, do not want people believing that this organization is pursuing obvious dead ends. I believe it is the brightest of the bright that get to work there and at this point, I cannot stand propaganda being pushed in their name. NASA has the final say in whether or not the claims about them are true and I think they should make the real truth about them known.

NASA, please make a statement about your stance on Sanskrit and whether or not it is or has been actively pursued by your organization.

-Art and Article
Sowmya K
III sem

Amazing facts about Nepal

"Sagarmatha" the highest mountain in the world
Sagarmatha is just another name for Mount Everest in Nepal. And yes it continues to be the highest mountain in the world. Many mountaineers come to Nepal with an urge to climb to the top. But do you know how high it actually stands??? It's 8,848 meters (29,029 ft.) above sea level to be precise.

About Living Goddesses

A Kumari is generally chosen for one day and worshipped accordingly on certain festivals like Navaratri or Durga Puja. In Kathmandu Valley, this is a particularly prevalent practice. A Kumari is believed to be the incarnation of Taleju. No matter how bizarre it sounds, the fact remain that Nepalese worship young pre-pubescent girls for manifesting divine female energy, incarnations of Goddess Taleju, known as Durga in India. There are several Kumari throughout Nepal, but the best known is the Royal Kumari of Kath

mandu. Once the current Kumari is no longer eligible to be a vessel for the goddess a national or regional search begins to find an appropriate successor. There are many criteria that a council of Newari have to make sure are met. These include the thirty-two perfections of a goddess. Some of which are:

• A body like a banyan tree
• Thighs like a deer
• Eyelashes like a cow
• Twenty unbroken teeth should be present
• Hair and eyes should be very black

Keep in mind these are just some of the necessities of being a Kumari. For example, the selection process itself for the Kathmandu Kumari involves even more:
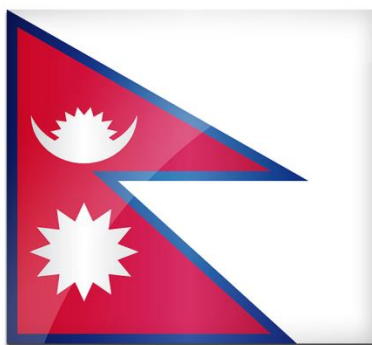
During the kalratri, or 'black night' ritual, 108 buffaloes and goats are sacrificed. The young girl is taken into the taleju temple's courtyard where the severed heads of the animals are

lluminated by candles and masked men dance about. The child must show no fear during any of this.

Finally, the girl must spend a night with slaughtered heads of the animals and again show no fear. If she passes these tests the girl is taken for ritual cleansing of her past life. Adorned with the Kumari clothes and taken to her new house where she shall remain without seeing her past family until such time as the goddess leaves her (usually her first menstruation).

The above are the strict and official rules. Today many of the Kumari do get to see their families and indeed the families live with them

A flag that's unlike other flags!

Nepal's national flag is nothing close to a quadrilateral. It, in fact, looks like two right-angled triangles set one above the other, making this flag look like the Himalayan mountain range. These coinciding triangles also represent Hinduism and Buddhism; the two predominant religions which Nepalese follow. The flag is filled with red colour that is the national colour of the country and outlined by blue which represents peace. Faces of Sun and Moon completes the flag referring to the firm belief of Nepalese in Hindu Gods.

Unique Nepali Calendar

The Nepali calendar called Bikram Sambhat is a pproximtely 67 years and 8.5 months ahead of the Gregorian calendar. The Nepali New Year is celebrated in mid-April.

Birthplace of Lord Buddha

Nepal is the birthplace of the Light of Asia-Buddha. Siddhartha Gautam (Buddha) was born in 623 B.C. in Kapilvastu, Lumbini, which lies in Nepal. Lumbini is now a sacred place of pilgrimage for Buddhists all over the world.There are different relics around Maya Devi Temple which dates back to the time during Buddha's birth.

-KASHISH SINGH

III SEM

What coding is and why you should learn coding?

In this 21st century, Computer Science has become so popular that it can change one's life. Lot of people don't really know what coding is. But people who understand how to code can apply it beyond their computers. Coding enables you to solve real world problems in an efficient way. Coding is like a communication language, by putting words and grammar together, you can turn your thoughts into output that a third person is able to understand. At the core of coding, a coding language is a set of rules and function. Many people give up before starting, but it doesn't have to be in this way. A person needs to understand the concepts of computer science. Coding forces you to break a problem into a series of small modules. In an interview, apple CEO Tim Cook said "It's better to learn to code than learn English as a second language." Further he said "If I was a French student and was 10 years old, I think it would be more important to learn coding than English. I'm not telling people not to learn English—but this is a language that you can [use to] express yourself to 7 billion people in the world. I think coding should be required in every public school in the world. " Coding enables your brain to think in a whole new way. Coding from scratch leads to your thinking process and gives a great solution. When you encounter a problem after learning to program, your brain start envisioning the possible way to solve it. A programmer need to think logically. Once you know how to code you will start finding the solution over and over again because you know that there is always a solution. Learn computer programming to feel the confidence of having this robust tool at your disposal. It's amazing!

-HARSHIT JAIN
III SEM

--SOWMYA K
III SEM

Robotics

When it comes to robots, reality still lags science fictions. But, just because robots have not lived up to their promise in past decades does not mean that they will not arrive sooner or later. Indeed, the confluence of sevral advanced technologies is bringing the age of robotics ever nearer – smaller, cheaper, more practical and cost-effective.

Robotics is the branch of technology the deals with the design, construction, operation, and application of robots, as well as computer systems for their control, sensory feedback, and information processing.
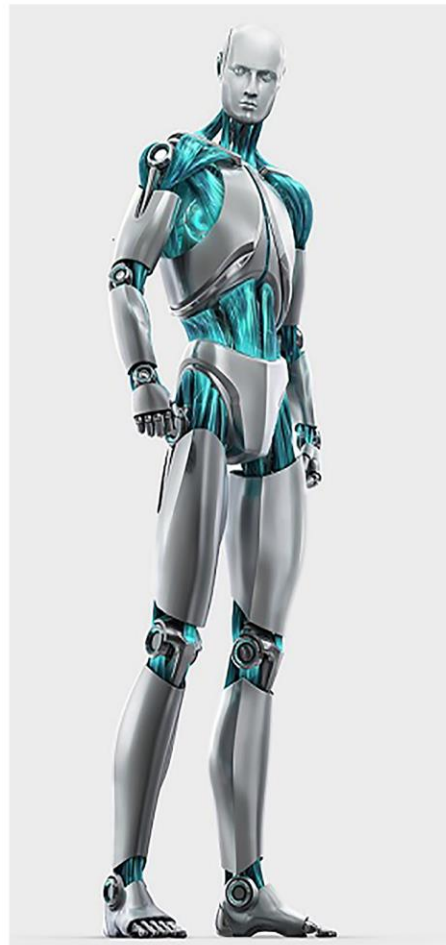
These technologies deal with automated machines that can take the place of humans in dangerous environments or manufacturing processes, or resemble humans in appearance, behaviour, and/or cognition. When celebrating the foundation of Advances in Robotics and Automation, we are also thinking over how to get rapidly increasing reputation for this new journal. At the same time, we also note a mushroom growth of open access journals in different scientific fields. ARA must have an some unique features to distinguish itself from others. On the one hand, we should make more advantages of OMICS Group special features such as companion multi-media, social networking and so forth.

Industrial robots already at work

The number of robots in the world today is approaching 1,000,000, with almost half that number in Japan and just 15% in the US. A couple of decades ago, 90% of robots were used in car manufacturing, typically on assembly lines doing a variety of repetitive tasks. Today only 50% are in automobile plants, with the other half spread out among other factories, laboratories, warehouses, energy plants, hospitals, and many other industries. Robots are used for assembling products, handling dangerous materials, spray-painting, cutting and polishing, inspection of products.
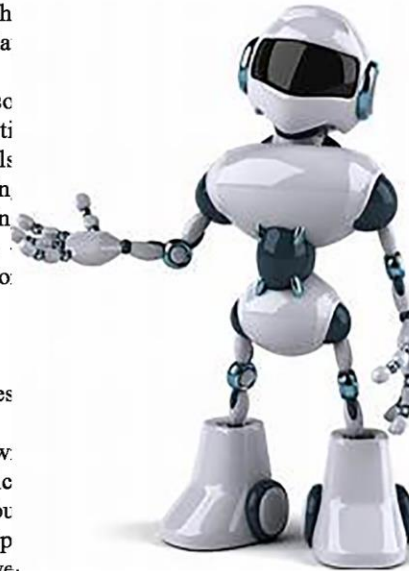
Robot intelligence

Even with primitive intelligence, robots have demonstrated an ability to generate good gains in factory productivity, efficiency and quality. Beyond that, some of the smartest robots are not in manufacturing; they are used as space explorers, remotely operated surgeons and even pets – like Sony's AIBO mechanical dog. ss strain.

In some ways, some of these other applications show what might be possible on production floors if manufacturers realize that industrial robots don't have to be bolted to th floor, or constrained by the limitations of yesterda machinery concepts.

With the rapidly increasing power of the microprocesso and artificial intelligence techniques, robots have dramati cally increased their potential as flexible automation tools The new surge of robotics is in applications demandin advanced intelligence. Robotic technology is convergin with a wide variety of complementary technologies machine vision, force sensing (touch), speech recognitio and advanced mechanics.

Robotic Assistance

A key robotics growth arena is Intelligent Assist Devices (IAD) – operators manipulate a
robot as though it were a bionic extension of their ow limbs with increased reach andstrength. This is robotic technology – not replacements for humans or robots, bu rather a new class of ergonomic assist products that help human partners in a wide variety of ways, including powe assist, motion guidance, line tracking and process automation. IAD's use of robotics technology to help production people to handle parts and payloads –

Envisioning Vision

Despite the wishes of robot researchers to emulate human appearance and intelligence, that simply hasn't happened. Most robots still cannot see versatile and rapid object recognition is still not quite attaiable.And there are very few examples of bipedal, upright walking robots such as Honda's P3, mostly used for research or sample demonstrations.

A relatively small number of industrial robots are integrated with machine vision systems –which is why hasn't called machine vision rather than robot vision. The early machine vision adopters paid very high prices, because of the technical expertise needed to "tweak" such systems. For example, in the mid-1980s, a flexible manufacturing system from Cincinnati Milacron included a $900,000 vision guidance system. By 1998 average prices had fallen to $40,000, and prices continued to decline.

Today, simple pattern matching vision sensors can be purchased for under $2,000 from Cognex, Omron and others. The price reductions reflect today's reduced computing costs and the focused development of vision systems for specific jobs such as inspection.

-Neha Biswas
lll sem

CUTTING EDGE TECHNOLOGIES

Cutting edge techniques are the most advanced that are in a particular field. The technology is changing every second. At present any new technology will become obsolete in 8 hours. It is growing at a rapid pace and every now and then new technologies are being implemented. Here are the few cutting-edge technologies that may change the future.

Ultra– High-Speed Tube Trains

Magnetic levitation, or Maglev, trains have been in development for quite some time. In Japan, a recent successful test run means that plans are underway to connect the whole country by 2045 with trainscapable of reaching over 480 kph (300 mph). They accomplish this by removing the wheels—and thereby, contact and friction from the equation. Maglev trains levitate above the track, suspended by an electromagnetic field. And while the Japanese model is impressive, one company in the small Colorado town of Longmont is upping the ante by eliminating another barrier to shattering speeds: namely, wind resistance. Its track is contained within a sealed, pressurized vacuum tube, making the capsules conceivably capable of speeds up 6,500 kph (4,000 mph), all while subjecting the passenger to G-forces comparable to that of a leisurely ride on the highway and transporting them across the entire US in less than an hour.

Wireless Electricity

Wireless device charging has been around for some time and continues to improve. Companies like WiTricity are at work developing electric "hubs" that can power your entire house. Their prototype is called "Prodigy" and is based on research done by physicist Marin Soljacic of MIT. It works by exploiting the fact that certain frequencies of electromagnetic waves facilitate ease of energy transfer, and two objects resonating with such a frequency can easily transfer electricity between them, even at some distance and even if the objects are metal. When perfected (which many see coming within the next decade), it could bring about an end to batteries as we know.

Holographic TV

With Ultra High Definition TV is on the way, there are really only so many pixels you can cram into a flat display most existing models are 214-centimetre (84 in) monsters for that very reason. But the next generation of TVs, if you can call them that, won't have screens so much as they'll have a viewing area, it could be an entire room but holographic displays are definitely in the works.Researchers at MIT, who are apparently good at the cutting-edge technology thing, have created a chip that can support a holographic display of 50 gigapixels per second enough to simulate real-world objects. Holographic displays may hit the market within 10 years at the same cost as today's regular, flat TVs. As of this writing, they're working on ramping that up to a two-meter (six-foot) image, displayed by a unit the size of a toaster.

Artificial Gills

Inventors have long sought an underwater breathing apparatus that doesn't store oxygen but extracts it from the water the way gills do. The device, aptly named Like a Fish, works by using a centrifuge to lower the pressure of water within an airtight chamber. Since only a little oxygen is contained in water, the device must move about 190 litres (50 gallons) per minute in order for the average person to breathe comfortably. Despite this, the only real barrier to implementation is size and weight, but it's close enough that the device has been under consideration for military use for several years now.

Manasa M N
III Sem

DATA MINING IN FRAUD DETECTION

Data mining refers to extracting or "mining" knowledge from large amount of data. There are a number of data mining techniques like clustering, neural networks, regression, multiple predictive models. Here, we discuss only few techniques of data mining which would be considered important to handle fraud detection. Online analytic tools provided real-time feedback and information exchange with collaborating business units of "Data Mining". The core components of data mining technology have been developing for decades in research areas such as statistics, artificial intelligence, and machine learning.

DATA MINING TECHNIQUES

Data mining tools take data and construct a representation of reality in the form of a model. The resulting model describes patterns and relationships present in the data. From a process orientation, data mining activities fall into three general categories:

Discovery - the process of looking in a database to find hidden patterns without a predetermined idea or hypothesis about what the patterns may be.

Predictive Modeling - the process of taking patterns discovered from the database and using them to predict the future.

Forensic Analysis - the process of applying the extracted patterns to find anomalous or unusual data elements. Data mining is used to construct six types of models aimed at solving business problems: classification, regression, time series, clustering, association analysis, and sequence discovery.

TYPE OF FRAUD

The types of frauds includes credit card frauds, telecommunication frauds, and computer intrusion. Credit Card Fraud. Credit card fraud is divided into two types: offline fraud and online fraud. Offline fraud is committed by using a stolen physical card at storefront or call center. In most cases, the institution issuing the card can lock it before it is used in a fraudulent manner. Online fraud is committed via web, phone shopping or cardholder- not present. Only the card's details are needed, and a manual signature and card imprint are not required at the time of purchase. Computer Intrusion is defined as the potential possibility of a deliberate unauthorized attempt to access information, manipulate information, or render a system unreliable or unusable.

DATA MINING TECHNIQUES IN FRAUD DETECTION

Credit Card Fraud Detection Credit card fraud detection is quite confidential and is not much disclosed in public. Some available techniques are discussed as follows.

Outlier Detection

An outlier is an observation that deviates so much from other observations as to arouse suspicion that it was generated by a different mechanism. Unsupervised learning is a new explanation or representation of the observation data, which will then lead to improved future responses or decisions

.

Neural Networks

A neural network is a set of interconnected nodes designed to imitate the functioning of the human brain. Each node has a weighted connection to several other nodes in adjacent layers. Features neural networks trained with the past data of a particular customer. It makes the network process the current spending patterns to detect possible anomalies. Brause and Langsdorf proposed the rule- based association system combined with the neuro-adaptive approach.
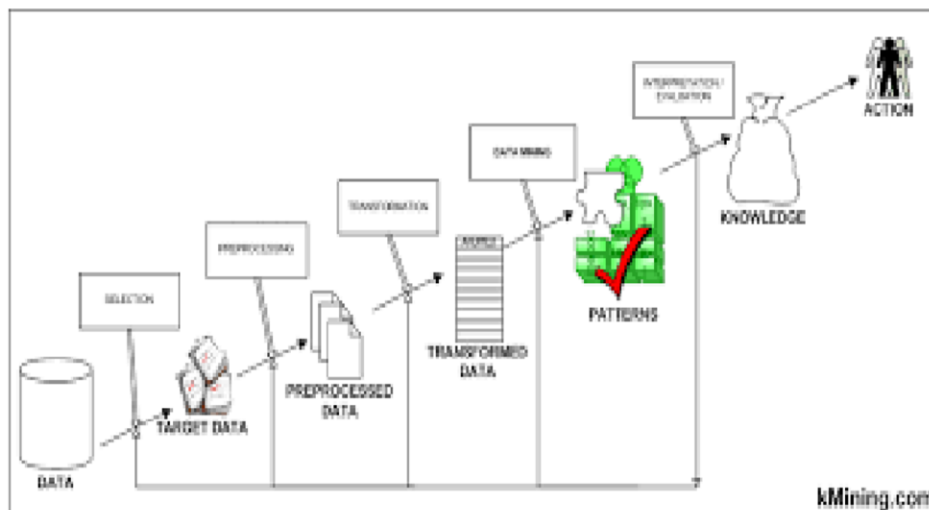
Computer Intrusion Detection

An intrusion detection system is needed to automate and perform system monitoring by keeping aggregate audit trail statistics. Intrusion detection approaches can be broadly classified into two categories based on model of intrusions: misuse and anomaly detection.

Expert Systems

An expert system is defined as a computing system capable of representing and reasoning about some knowledge-rich domain with a view to solving problems and giving advice. Expert system detectors encode knowledge about attacks as if-then rules. NIDES developed by SRI uses the expert system approach to implement intrusion detection system that performs real-time monitoring of user activity.

Reference from Data mining techniques for Fraud Detection (Anita B. Desai, Dr. Ravindra Deshmukh)

- **Sushma G**
III SEM

-SHASHANK S
V SEM

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"TEAMWORK BEGINS BY BUILDING TRUST. AND THE ONLY WAY TO DO THAT IS TO OVERCOME OUR NEED FOR INVULNERABILITY".

-PATRICK LENCIONI

Autonomy
Is the AI system performing at an assitive capacity or non-assitive capacity.

Training
How does the AI system learn and improve?

Depth
Relevent quantity and quality of AI system's corpus

Compentencies
What kind of answers to problems we are seeking it to solve.

Breadth
Is the system pertitent to aspecific process (IT, BUSINESS)or can it be generalized?