



INFO
FLAME

2018-19

INFORMATION TECHNOLOGY



CONTENT



DEPARTMENT OF INFORMATION TECHNOLOGY

Vision

To provide reliable and modern technology resources to the faculty and students to develop the competence in Information Technology and to endure with the rapidly changing world to serve the mankind

Mission

- Imparting technical knowledge through innovative teaching and research for budding professionals.
- To equip the students with strong fundamentals, programming and problem solving skills with an exposure to emerging technologies and inculcate leadership qualities with a passion to serve society



Program Outcome

Engineering Graduates will be able to:

- **PO1: Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **PO2: Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **PO3: Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- **PO4: Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- **PO5: Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- **PO6: The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- **PO7: Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **PO8: Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **PO9: Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **PO10: Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- **PO11: Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- **PO12: Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Program Educational Objectives

- **PEO1:** Graduates will be able to comprehend mathematics, science, engineering fundamentals, laboratory and work-based experiences to formulate and solve problems in the domain of Information Technology and acquire proficiency in Computer-based engineering and the use of computational tools.
- **PEO2:** Graduates will be prepared to communicate and work effectively on multidisciplinary engineering projects and practicing the ethics of their profession.
- **PEO3:** Graduates will realize the importance of self learning and engage in lifelong learning to become experts either as entrepreneurs or employees in the field to widen the professional knowledge.

Program Specific Outcomes

- **PSO1:** Ability to organize an IT infrastructure, secure the data and analyze the data analytic techniques in the field of data mining, big data as to facilitate in solving problems.
- **PSO2:** Ability to analyze and design the system in the domain of Cloud and Internet of Things.

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2018 - 2019

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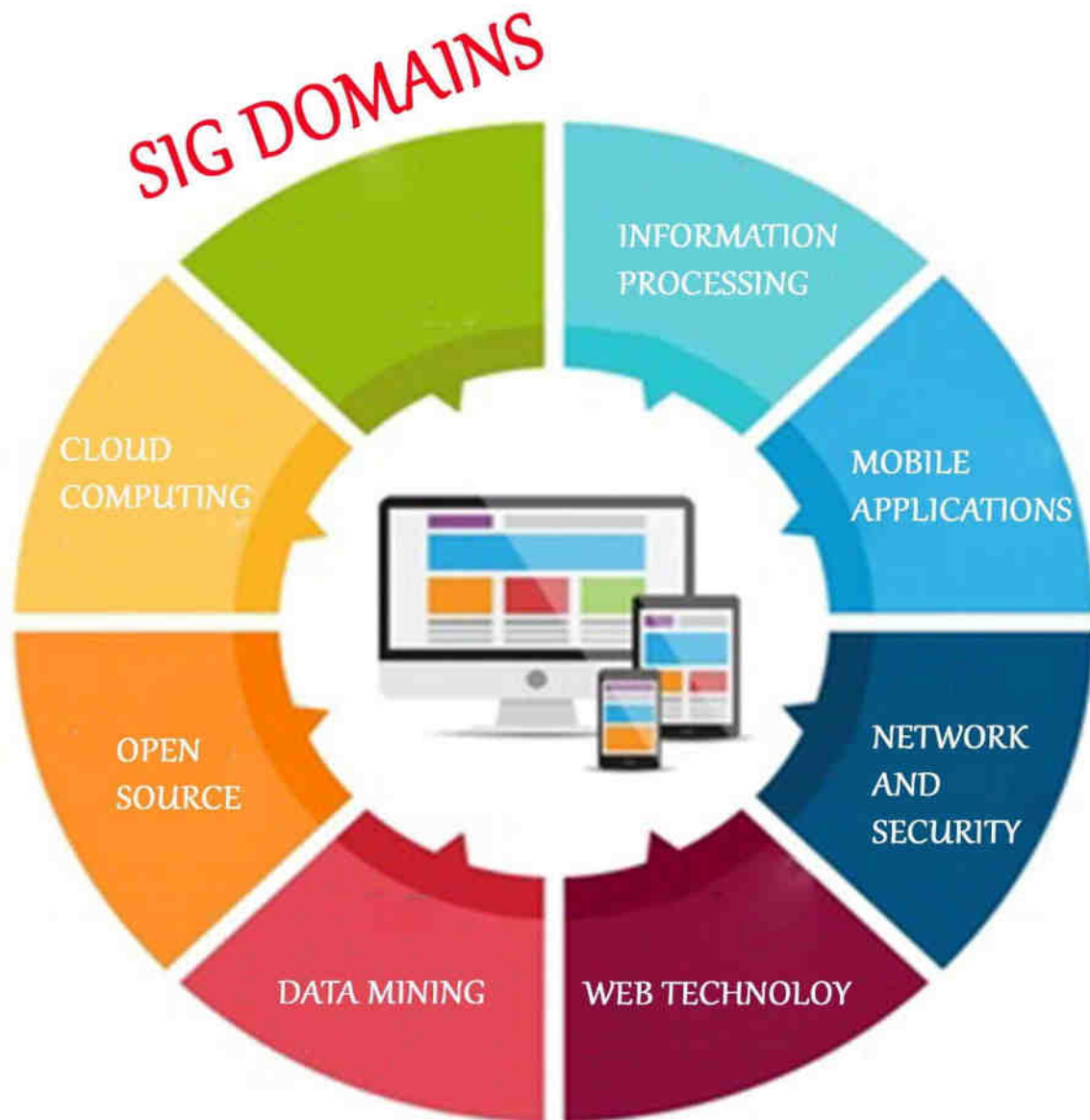
Editorial Board

P.Kavin

III IT B

Naveendhar R

II IT B



The background is a vibrant, abstract composition. It features a dense array of orange and red splatters, blotches, and ink-like stains of varying sizes. Overlaid on this organic texture are several white geometric shapes: a large L-shaped bracket in the upper left, a solid red square within its corner, a vertical rectangular bar on the right side, and a smaller L-shaped bracket in the lower right corner. The overall effect is one of dynamic energy and artistic expression.

STUDENT ACTIVITY

பூப்பந்து போட்டி; கற்பகம் கல்லூரி அணி சாம்பியன்

சென்னை, செப். 11-

சென்னை, அண்ணா பல்கலை, இன்றி., கல்லூரிகளுக்கான, 10 மண்டல பூப்பந்து போட்டியில் கற்பகம் இன்றி., கல்லூரி அணி சாம்பியன் பட்டம் வென்றது.

சென்னை, அண்ணா பல்கலை இன்றி., சார் சீல், கோவை- 10ம் மண்டல மாணவர்களுக்கான பூப்பந்து போட்டி, இத்துல்தான் இன்றி., தொழில்நுட்ப கல்லூரியில் நடந்தது. இதில், 9 இன்றி., கல்லூரி அணிகள் பங்கேற்றன. போட்டியை இத்துல்தான் கல்லூரி இன்றி., முதல்வர் கண்ணதாசன் துவக்கி வைத்தார். கல்லூரி உடற்கல்வி இலக்குனர் ரமேசுமணி உயிர்த்த பவர் பங்கேற்றனர்.

காலியிறிப்போட்டியில் கற்பகம் கல்லூரி அணி, 3-1 என்ற செட் கணக்



இத்துல்தான் கல்லூரியில் நடந்த, சென்னை அண்ணா பல்கலை இன்றி., கல்லூரி மாணவியாக்கான, பத்தாவது மண்டல பூப்பந்து போட்டியில் வெற்றி பெற்ற, கற்பகம் இன்றி., கல்லூரி அணியினர்.

கில், மட்டி போட்டு கல்லூரி அணியையும்; சவது போட்டியில் அக்ஷரா கல்லூரி அணி, 3-0 என்ற செட் கணக்கில், கற்பகம் தொழில்நுட்ப கல்லூரி அணியையும் வென்றது. சவது போட்டியில் 10ம் மண்டல கல்லூரி அணியை வென்றது.

அணி, 3-0 செட் கணக்கில் மி.ஏ., கல்லூரி அணியை வென்றது. சவது போட்டியில் ஸ்ரீ ராமகிருஷ்ணா தொழில்நுட்ப கல்லூரி அணி, 3-0 என்ற செட் கணக்கில், இத்துல்தான் கல்லூரி அணியை வென்றது.

அனாபிறிப்போட்டியில், கற்பகம் இன்றி., கல்லூரி அணி, 3-0 என்ற செட் கணக்கில் ஸ்ரீ கல்யாண் கல்லூரி அணியை வென்றது. சவது போட்டியில், ஸ்ரீ ராமகிருஷ்ணா கல்லூரி அணி, 3-0 என்ற செட் கணக்கில் அக்ஷரா கல்லூரி அணியை வென்றது.

இறுதிப்போட்டியில் கற்பகம் இன்றி., கல்லூரி அணி, ஸ்ரீ ராமகிருஷ்ணா தொழில் கல்லூரி அணிக்குள் போடுதல், சிறப்பான ஆட்டத்தை வெளிப்படுத்தியது. கற்பகம் இன்றி., கல்லூரி அணி, 3-0 என்ற செட் கணக்கில், ஸ்ரீ ராமகிருஷ்ணா தொழில்நுட்ப கல்லூரி அணியை வென்றது. வெற்றி பெற்ற வீரர்கள் கண்களுக்கு, கல்லூரி முதல்வர் விஜயகுமார் மற்றும் உடற்கல்வி இலக்குனர் கணபதி பாராட்டுகளை தெரிவித்தனர்.



A TINY CAMERA LENS



This may lead to a device that links quantum computers to an optical fibre network.

Quantum computers promise a new era in ultra-secure networks, artificial intelligence and therapeutic drugs, and will be able to solve certain problems much faster than today's computers. The unconventional lens made of a silicon film, which is 100 times thinner than a human hair, could enable a fast and reliable transfer of quantum information from the new-age computers to a network, once these technologies are fully realised. The device is with millions of nano-structures forming a metasurface, which can control light with functionalities outperforming traditional systems.



“It is the first of its kind to image several quantum particles of light at once, enabling the observation of their spooky behaviour with ultra-sensitive cameras”

“Our device offers a compact, integrated and solution for manipulating quantum light. It is fabricated with a similar kind of manufacturing technique used by Intel and NVIDIA for computer chips.”

S.BALAMURUGAN
IT-B



IMPORTANT HUMAN QUALITY

When a child grows, right from childhood, his parents try to teach him all the **GOOD QUALITIES**. Because those qualities are the true mark of a good human. It is upto an individual whether to imbibe these qualities in order to become a good person and to lead a happy life. **FAITH** -

Have faith in yourself and in your abilities. Have courage to go where most people don't dare to go. Courage to be the person you were born to be. As said in the book of Mathew, in the Bible, if your faith is small as mustard seed and you can say the mountain to move from here to there and it will move. Your inner faith has a splendiferous power. **HUMANITY** - Basic principle of humanity is to love others as yourself. Have a caring and a helpful mind. When we take an instance of floods it was the humanity which helped and saved people. Nowadays people have more friends in social media than in reality. Showing humanity in social networking sites is not a big deal. Expressing humanity in reality matters, it varies from people to people.

THANKFULNESS - "**THANKFULNESS IS AN ATTITUDE OF GRATITUDE**". Thank for the life which you have. Thank for the fortunes and the blessings that you have and which are yet to be added in your life. Because a value of a thing will be known only before it reaches and after it moves away from our hand. We all could be happy if we shrink our egos and express these qualities in our day to day life.

R.KANAGALAKSHMI
II-IT-B





☺ MY TRUE COMPANION ☺



My true companion is TOMMY. He is not just a pet but he is my lovely little brother. He is a fawn Labrador dog. He turned two years old by August 31, 2016. He is very smart, naughty and active. He runs at an incredible speed.

He is a non-vegetarian; normally we feed him with milk-rice, carrot and rusk. But he is fond of chicken very much. And he loves to eat sweets, ice creams, cakes, fruits except sour tasted fruit like orange. He almost eat everything, but our grandma restrict to give; because of fear on his health.



**"Not every human knows
how to love dogs. But
every dog knows how to
love human."**

He is more caring not only with our family members; but with everyone. He except only two things, one is he want to be always with us and another is we want to be always with him. He loves to go out for a walk with my elder brother. Even though my brother behaves rude sometime, he never keeps it in mind. He does enjoy my brother's company every time without thinking of anything. He can able to walk in two legs. And he used to dance by holding our hands with his two forelimbs.

NOMOPHOBIA

-the biggest phobia of the world.

'Nomophobia' - the fear of being without your mobile.

As per the survey, it says that we check our phones 34 times a day. In 2008 survey showed that 53 per cent of us admitted to the phobia. Fears include losing reception, running out of battery, and losing sight of your phone. Maybe it is wrong to call this a phobia. For a phobia is generally an 'irrational fear', and that pang of anxiety when you are without your mobile in this brave new connected world is perhaps an understandable feeling. But either way, for 66 per cent of us, being with your phone at all times is an obsession that occupies every waking minute. If you think you may suffer from nomophobia - or 'no mobile phone phobia' - then the warning signs are: An inability to ever turn your phone off, obsessively checking for missed calls, emails and texts and constantly topping up your battery life.

The number of people afflicted with nomophobia was revealed in a study by SecurEnvoy, and shows a rise from a similar study four years ago, where 53 per cent of people admitted the fear of losing their phone. In the latest study, of the 1,000 people surveyed in the UK, 66 percent said they felt the fear. Young adults - aged between 18 and 24 - tended to be the most addicted to their mobile phones, with 77 per cent unable to stay apart for more than a few minutes, and those aged 25 to 34 followed at 68 percent.

That number is up from a similar study four years ago where 53 percent of people admitted to the phobia.

A-Z

Arise !when you fall
Beware !when you believe
Cheer out !when you try
Do it !when you decide
Encourage !when you look
Fullfil ! when you dream
Give !when you get
Help! when you can
Initiate !when you need
Join!when you isolate
Kick off! when you fear
Learn !when you fail
Make !when you have
Navigate! when you miss
Observe! when you watch
Perform!when you practice
Question!when you listen
Relax!when you stressed
Succeed !when you worksmar
Think !when you hear
Understand !when you confuse
Visualize! when you think
Win! when you reach
Xplore!when you come_out
Yours!when you bring up
Zeal!when you create



ELAKKIYA E
II year IT-B

The study showed that people on average shows 75 per cent of us use the phone in the bathroom - with many people saying it is the modern equivalent of the newspaper. Other findings showed that, even if 49 per cent of us get upset if their messages and texts were not viewed by their contacts.

HOW TO DEAL WITH THE PHOBIA:

Avoid putting your mobile down in public places. Regularly create a back up of your address book on a spare mobile phone, SIM card or computer. Make sure you charge your battery before you leave the house. Keep a spare battery charger at work. Buy a spare battery as a back up. Before traveling check with your provider to make sure that you can send and receive calls while abroad (and watch out for the extortionate internet data costs!) .

Don't leave the fear inside you to ruin yourself, just fight against it so that it can run from yourself.

**.B.SHARMATHA
II-IT B**





TINY CYBORG SAVIOURS



A tiny neuro-controller created by researchers at the University of Connecticut could provide more precise control of futuristic biobots, such as cyborg cockroaches that are already being tested for use in search and rescue missions inside collapsed buildings. Scientists have spent the better part of the past decade exploring ways to tether live insects to miniaturized computer hardware so they can manipulate an insect's movement. Such possibilities are of interest to the U.S. Department of Defense, search and rescue teams, and others. Success has been limited and numerous technological challenges continue to exist. This is mainly due to the tremendous difficulty building robotic systems at such small scale and the challenge interfacing electronic hardware with the insect's biological nerve tissue to initiate movement. The neuro-controller microcircuit developed at UConn is part of a tiny electronic 'backpack' that can be attached to the insect with its wires connected to the insect's antennae lobes. By sending slight electrical charges to neural tissue in either the insect's left or right antenna lobe, operators can trick the insect into thinking it has detected an obstacle, causing it to move in another direction. A charge sent to the right antenna makes a cockroach move left. Likewise, a charge to the left antenna makes it move right.



Source: ANU

"The use of insects as platforms for small robots has an incredible number of useful applications from search and rescue to national defense," says Abhishek Dutta, an assistant professor of electrical and computer engineering at UConn, who developed the circuit along with an undergraduate researcher in his lab, Evan Faulkner.

ARTIFICIAL INTELLIGENCE ROBOT

SONY AIBO

THE WORD AIBO COMES FROM ARTIFICIAL INTELLIGENCE ROBOT AND IS ALSO THE JAPANESE WORD FOR 'COMPANION' OR 'FRIEND'. THEY WERE FIRST INTRODUCED IN 1999 AND WERE THE FIRST CONSUMER ROBOT OF ITS KIND TO BE OFFERED TO THE PUBLIC. THE AIBO IS ABLE TO DEVELOP FROM A NEWBORN PUPPY TO AN ADULT WITH A PERSONALITY SHAPED BY THE INTERACTION WITH THEIR OWNERS AND SURROUNDINGS. HOWEVER, THEY WERE NEVER INTENDED TO BE MASS PRODUCED, HAVING STARTED LIFE IN 1993 AS A RESEARCH PROJECT. THE EUROPEAN LAUNCH TOOK PLACE ON 26 OCTOBER 1999 AND AT THIS EVENT, SONY ANNOUNCED A NEW SPECIAL EDITION MODEL (ERS-111) FOR NOVEMBER 1999 TARGETING EUROPE, JAPAN AND THE US. THIS TIME, 10,000 MODELS WERE TO BE PUT ON SALE FOR A PERIOD OF ONE WEEK. ONCE AGAIN, ALL EXPECTATIONS WERE CRUSHED. DURING THAT SINGLE WEEK, SONY RECORDED 135,000 ORDERS. THE MAIN REASON BEHIND OFFERING SUCH LIMITED NUMBERS WAS TO KEEP A CLOSE CONTACT WITH CUSTOMERS TO FAVOUR FEEDBACK AND HELP FURTHER DEVELOP THE PERFORMANCE OF AIBO.

football factos !!!

Football is the most popular game which combines strength , speed , and skills . Even if you are a hardcore fan of Football , there may still be many things that you don't know about this amazing sport.

- Football was invented in China nearly 476 B.C
- Football is the most watched and most played sport on earth
- Only Canadians and Americans call football as Soccer.
- During every game, Football players run an average of 9.65 km.
- The first game of Basketball was played with a football .
- The football hall of fame is situated in Canton, Ohio.
- Greenland cannot join the FIFA because not enough grass grows for a football field.
- There are four types of special teams: kick off , return kicks , block and return punts.
- Different shots in football are : knuckle shot, the full volley , the half volley , the swerve shot, the side volley and the flying volley.
- The highest goals were 149-0 in a football game played between Stade Olympique de L'emyrne and AS Adema of Madagascar.

By

Rakesh.K

IIITB

SUSTAINABLE LIVING

SUSTAINABLE LIVING IS FUNDAMENTALLY THE APPLICATION OF SUSTAINABILITY TO LIFESTYLE CHOICE AND DECISIONS. ONE CONCEPTION OF SUSTAINABLE LIVING EXPRESSES WHAT IT MEANS IN TRIPLE-BOTTOM-LINE TERMS AS MEETING PRESENT ECOLOGICAL, SOCIETAL, AND ECONOMICAL NEEDS WITHOUT COMPROMISING THESE FACTORS FOR FUTURE GENERATIONS. ANOTHER BROADER CONCEPTION DESCRIBES SUSTAINABLE LIVING IN TERMS OF FOUR INTERCONNECTED SOCIAL DOMAINS: ECONOMICS, ECOLOGY, POLITICS AND CULTURE. IN THE FIRST CONCEPTION, SUSTAINABLE LIVING CAN BE DESCRIBED AS LIVING WITHIN THE INNATE CARRYING CAPACITIES DEFINED BY THESE FACTORS. IN THE SECOND OR CIRCLES OF SUSTAINABILITY CONCEPTION, SUSTAINABLE LIVING CAN BE DESCRIBED AS NEGOTIATING THE RELATIONSHIPS OF NEEDS WITHIN LIMITS ACROSS ALL THE INTERCONNECTED DOMAINS OF SOCIAL LIFE, INCLUDING CONSEQUENCES FOR FUTURE HUMAN GENERATIONS AND NON-HUMAN SPECIES. SUSTAINABLE DESIGN AND SUSTAINABLE DEVELOPMENT ARE CRITICAL FACTORS TO SUSTAINABLE LIVING. SUSTAINABLE DESIGN ENCOMPASSES THE DEVELOPMENT OF APPROPRIATE TECHNOLOGY, WHICH IS A STAPLE OF SUSTAINABLE LIVING PRACTICES.

SUSTAINABLE DEVELOPMENT IN TURN IS THE USE OF THESE TECHNOLOGIES IN INFRASTRUCTURE. SUSTAINABLE ARCHITECTURE AND AGRICULTURE ARE THE MOST COMMON EXAMPLES OF THIS PRACTICES

WATER

A MAJOR FACTOR OF SUSTAINABLE LIVING INVOLVES THAT WHICH NO HUMAN CAN LIVE WITHOUT, WATER. UNSUSTAINABLE WATER USE HAS FAR REACHING IMPLICATIONS FOR HUMANKIND. CURRENTLY, HUMANS USE ONE-FOURTH OF THE EARTH'S TOTAL FRESH WATER IN NATURAL CIRCULATION, AND OVER HALF THE ACCESSIBLE RUNOFF. ADDITIONALLY, POPULATION GROWTH AND WATER DEMAND IS EVER INCREASING. THUS, IT IS NECESSARY TO USE AVAILABLE WATER MORE EFFICIENTLY. IN SUSTAINABLE LIVING, ONE CAN USE WATER MORE SUSTAINABLY THROUGH A SERIES OF SIMPLE, EVERYDAY MEASURES. THESE MEASURES INVOLVE CONSIDERING INDOOR HOME APPLIANCE EFFICIENCY, OUTDOOR WATER USE, AND DAILY WATER USE AWARENESS.



BY

**MOHANAPRIYA
17F120
2ND YEAR
INFORMATION TECHNOLOGY**

5G WIRELESS TECHNOLOGY

5G IS THE FIFTH GENERATION OF CELLULAR MOBILE COMMUNICATIONS. IT SUCCEEDS THE **4G (LTE/WiMAX)** **3G (UMTS)** AND **2G (GSM)** SYSTEMS.

5G PERFORMANCE TARGETS HIGH DATA RATE, REDUCED LATENCY, ENERGY SAVING, COST REDUCTION, HIGHER SYSTEM CAPACITY, AND MASSIVE DEVICE CONNECTIVITY.

THE FIRST PHASE OF **5G** SPECIFICATIONS IN **RELEASE-15** WILL BE COMPLETED BY **MARCH 2019**, TO ACCOMMODATE THE EARLY COMMERCIAL DEPLOYMENT.

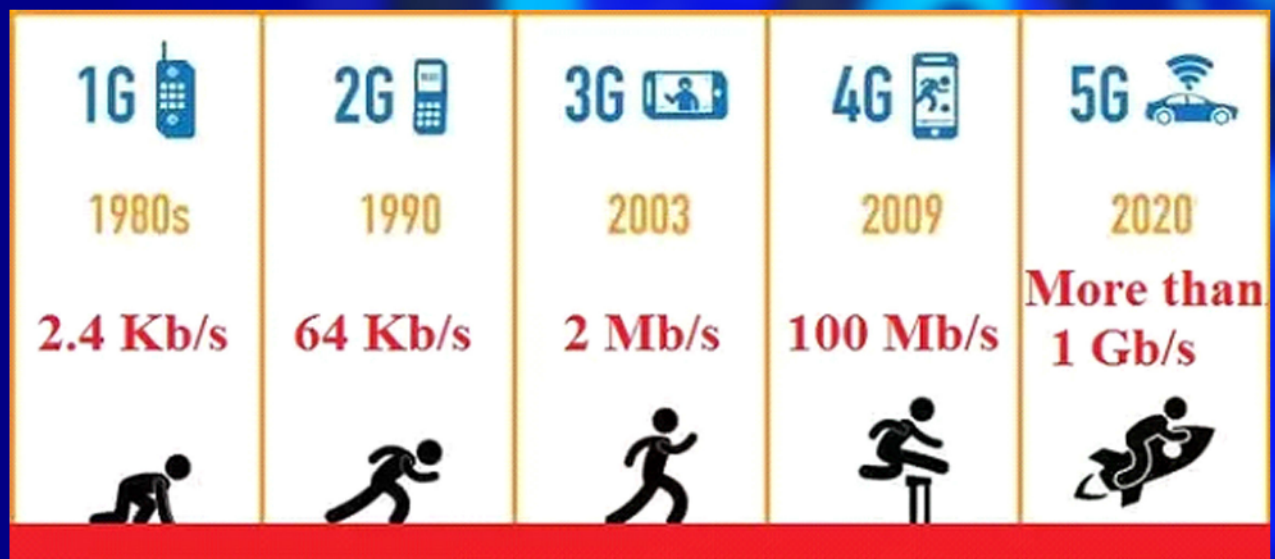
THE SECOND PHASE IN **RELEASE-16** IS DUE COMPLETED BY **MARCH 2020**, FOR SUBMISSION TO THE **ITU** AS A CANDIDATE OF **IMT-2020** TECHNOLOGY.

THE **ITU IMT-2020** SPECIFICATION DEMAND FOR SPEEDS UP TO **20** GIGABITS PER SECOND, ACHIEVABLE WITH MILLIMETER WAVES OF **15** GIGAHERTZ AND HIGHER FREQUENCY.

3GPP IS GOING TO SUBMIT **5G NR (NEW RADIO)** AS ITS **5G** COMMUNICATION STANDARD PROPOSAL.

5G New Radio can include lower frequencies, from 600 MHz to 6 GHz. However, the speeds in these lower frequencies are only slightly higher than new 4G systems, estimated at 15% to 50% faster

SPEED:



5G promises superior speeds in most conditions to the 4G network. 5G NR speed in sub-6 GHz bands can be slightly higher than the 4G with a similar amount of spectrum and antennas.

UNLESS THERE IS SUBSTANTIAL FIELD TESTING, **5G** SPEEDS CAN ONLY BE ESTIMATED. QUALCOMM, THE LEADING CHIPMAKER, PRESENTED AT **MOBILE WORLD CONGRESS** A MODEL THAT HAS BEEN CITED BY MANY. THE SIMULATION PREDICTS **490 MBIT/S** MEDIAN SPEEDS FOR A COMMON CONFIGURATION OF **3.5 GHz 5G MASSIVE MIMO**. IT PREDICTS A **1.4 GBIT/S** MEDIAN SPEED FOR A CONFIGURATION USING **28 GHz** MILLIMETER WAVES.

SOME **3GPP 5G** NETWORKS WILL BE SLOWER THAN SOME ADVANCED **4G** NETWORKS. **T-MOBILE'S LTE/LAA** NETWORK IS DEPLOYED AND SERVING CUSTOMERS AT OVER **500** MEGABITS PER SECOND IN **MANHATTAN**. THE **5G** SPECIFICATION ALLOWS **LAA** AS WELL BUT IT HAS NOT YET BEEN DEMONSTRATED.

ADDING **LAA(LICENSE ASSISTED ACCESS)** TO AN EXISTING **4G** CONFIGURATION CAN ADD HUNDREDS OF MEGABITS PER SECOND TO THE SPEED, BUT THIS IS AN EXTENSION OF **4G**, NOT A NEW PART OF THE **5G** STANDARD.



BY,

MILESHKUMAR
17F222

2ND YEAR
INFORMATION TECHNOLOGY

Cold-heart evidence of life

***The Size of Your Social Circle Is Related to Your Brain's Size**

A scientist at Oxford discovered that the size of a person's "orbitomedial prefrontal cortex" (the part of a brain that identifies other people's moods and personalities) can predict the size of that person's social circle. The average prefrontal cortex averages out to around 147.8 friends in a social network.

***Fake Smiles Can Kill You**

It turns out that faking happiness can hurt your health. According to a report by the New York Times, researchers looked at the behavior of bus drivers—a profession where people are required to have many at least kind of friendly interactions throughout the day—and discovered that these people withdraw from their work while putting on a smile for show, and that that could have long-term deleterious health effects

BY

M.PREETHI , II IT B

BITCOIN



Bitcoin is a cryptocurrency, a form of electronic cash. It is a decentralized digital currency without a central bank or single administrator that can be sent from user to user on the peer-to-peer bitcoin network without the need for intermediaries. Transactions are verified by network nodes through cryptography and recorded in a public distributed ledger called a blockchain. Bitcoin was invented by an unknown person or group of people using the name Satoshi Nakamoto and released as open-source software in 2009. Bitcoins are created as a reward for a process known as mining. They can be exchanged for other currencies, products, and services. Research produced by the University of Cambridge estimates that in 2017, there were 2.9 to 5.8 million unique users using a cryptocurrency wallet, most of them using bitcoin. Bitcoin has been criticized for its use in illegal transactions, its high electricity consumption, price volatility, thefts from exchanges, and the possibility that bitcoin is an economic bubble. Bitcoin has also been used as an investment, although several regulatory agencies have issued investor alerts about bitcoin. Price and volatility : Bitcoin price bubbles in 2011, 2013 and 2017 The price of bitcoins has gone through cycles of appreciation and depreciation referred to by some as bubbles and busts. In 2011, the value of one bitcoin rapidly rose from about US\$0.30 to US\$32 before returning to US\$2. In the latter half of 2012 and during the 2012–13 Cypriot financial crisis, the bitcoin price began to rise, reaching a high of US\$266 on 10 April 2013, before crashing to around US\$50. On 29 November 2013, the cost of one bitcoin rose to a peak of US\$1,242. In 2014, the price fell sharply, and as of April remained depressed at little more than half 2013 prices. As of August 2014 it was under US\$600.^[158] During their time as bitcoin developers, Gavin Andresen and Mike Hearn warned that bubbles may occur. According to Mark T. Williams, as of 2014, bitcoin has volatility seven times greater than gold, eight times greater than the S&P 500, and 18 times greater than the US dollar.

SANDHIYA K
III IT B

factum of unemployeement

**** At the End of 2008 the Unemployed Rate was 5%**

Within a few months of the Great Recession in 2008, the unemployment rate experienced a sharp increase. At that time, the unemployment rate in the United States was five percent, which means approximately 1.6 million people were recorded as unemployed.

**** By the end of 2011, 2.7 Million (10%-ish) Americans Were Unemployed**

By the end of 2011, the unemployment rate reached a record high of 2.7 million people; this number was the highest that the unemployment rate had reached in 17 years.

Within a three-month period, specifically from November 2013 to February 2014, the number of people who were unemployed in the United States dropped from 77,000 to a whopping 2.24 million. This number accounts for individuals between 16 and 65 years old.

****America Has Lost 7.5 Million Jobs Since 2008**

Overall, the United States economy has experienced a loss of 7.5 million jobs since the start of the Great Recession in 2008.

**By
A.Sowndarya , II IT B**

Amazing Facts

- ✚ Hydrophobic Sand doesn't gets wet!
- ✚ Forgetting things is actually good for your health.
- ✚ Left handed people die 3 years earlier than right handed people.
- ✚ Adidas is making shoes from Recycled ocean plastic.
- ✚ people who bite their nails are tend to have strong immune stamina.

By
SHARAN C, II IT A

IN 2006, AIBO WAS ADDED INTO THE CARNEGIE MELLON UNIVERSITY ROBOT HALL OF FAME. ON JANUARY 26, 2006 SONY ANNOUNCED THAT IT WOULD DISCONTINUE AIBO AND SEVERAL OTHER PRODUCTS IN AN EFFORT TO MAKE THE COMPANY MORE PROFITABLE. SONY'S AIBO CUSTOMER SUPPORT WAS WITHDRAWN GRADUALLY, WITH SUPPORT FOR THE FINAL ERS-7M3 ENDING IN MARCH 2013. IN JULY 2014, SONY STOPPED PROVIDING REPAIRS FOR AIBO PRODUCTS AND DID NOT PROVIDE CUSTOMER SUPPORT OR REPAIR FOR AIBO ROBOTS.

IN NOVEMBER 2017, SONY ANNOUNCED A NEW GENERATION OF AIBO AFTER 11 YEARS. THE FOURTH GENERATION MODEL, ERS-1000, WAS LAUNCHED IN JAPAN ON 11 JANUARY 2018. THE SECOND LOTTERY SALE WAS SET ON 6 FEBRUARY 2018



BY

S.NIVEDHASIJESH

IIND YEAR

17F124

B.TECH

INFORMATION TECHNOLOGY

நாசியில் பிறக்கும் முச்சக்காற்றை
மிதிவண்டியில் செலவிட்டு
பள்ளி செல்ல வைக்கும்
தந்தையின் அன்புக்கு -
தந்தை தாயும்
தவளைகளும்
கத்தித் திரியும் பறவைகளும்
அராதிக்கின்றன - தங்கள் குரல்களால். !

தான் பட்ட துன்பம்
தன் பிள்ளை காணிக் கூடாதென
தன் வாழ்நாள் முழுவதும் ...
உயர்வைப் போர்வைப்
போர்த்திக் கொண்டு
தன் பிள்ளையின்
உயர்வை நோக்கி
வாழ்பவரே தந்தை. !

— Manoj (மனோஜ்)

MANOJKUMAR R, II IT B

**PLAYSTATION VITA, XBOX ONE, WII U, 3DS,
OCULUS RIFT, GOOGLE CARDBOARD, STEAMVR,
PLAYSTATION VR, GEAR VR, WINDOWS MIXED
REALITY, DAYDREAM, ANDROID TV, SAMSUNG
SMART TV, TVOS, NINTENDO SWITCH, FIRE OS,
FACEBOOK GAMEROOM, APPLE'S ARKIT, GOOGLE
'S ARCORE, AND VUFORIA.**



BY

**M.PRADEESH
17F126
2ND YEAR
INFORMATION TECHNOLOGY**

HISTORY OF UNITY GAME ENGINE

UNITY IS A CROSS-PLATFORM GAME ENGINE DEVELOPED BY UNITY TECHNOLOGIES,[4] FIRST ANNOUNCED AND RELEASED IN JUNE 2005 AT APPLE INC.'S WORLDWIDE DEVELOPERS CONFERENCE AS AN OS X-EXCLUSIVE GAME ENGINE. AS OF 2018, THE ENGINE HAS BEEN EXTENDED TO SUPPORT 27 PLATFORMS. THE ENGINE CAN BE USED TO CREATE BOTH THREE-DIMENSIONAL AND TWO-DIMENSIONAL GAMES AS WELL AS SIMULATIONS FOR ITS MANY PLATFORMS. SEVERAL MAJOR VERSIONS OF UNITY HAVE BEEN RELEASED SINCE ITS LAUNCH, WITH THE LATEST STABLE VERSION BEING UNITY 2018.2.17, RELEASED ON NOVEMBER 22, 2018. THE FIRST VERSION OF UNITY (1.0.0) WAS CREATED BY COLLEAGUES: DAVID HELGASON, JOACHIM ANTE AND NICHOLAS FRANCIS IN DENMARK. THE INITIAL PRODUCT LAUNCHED ON JUNE 6, 2005. THE GOAL WAS TO CREATE AN AFFORDABLE GAME ENGINE WITH PROFESSIONAL TOOLS FOR AMATEUR GAME DEVELOPERS WHILE “DEMOCRATIZING THE GAME DEVELOPMENT” INDUSTRY. THE THREE WERE INSPIRED BY THE EASY WORKFLOW, SIMPLE ASSET PIPELINE, AND DRAG-AND-DROP INTERFACE OF APPLE’S FINAL CUT PRO PRODUCT. WHEN ORIGINALLY RELEASED, UNITY WAS AVAILABLE SOLELY FOR MAC OS X, AND DEVELOPERS COULD ONLY DEPLOY THEIR CREATIONS TO A

PASSWORD HACKING

KEEPING YOUR DETAILS SAFE IN A DATABASE IS THE LEAST A SITE CAN DO, BUT PASSWORD SECURITY IS COMPLEX.

IN THE DATABASE SIDE:

IF YOU HAVE ACCESS TO THE DATABASE CONTAINING THE PASSWORDS YOU CAN READ THEM JUST AS YOU CAN READ THE TEXT ON THIS PAGE.

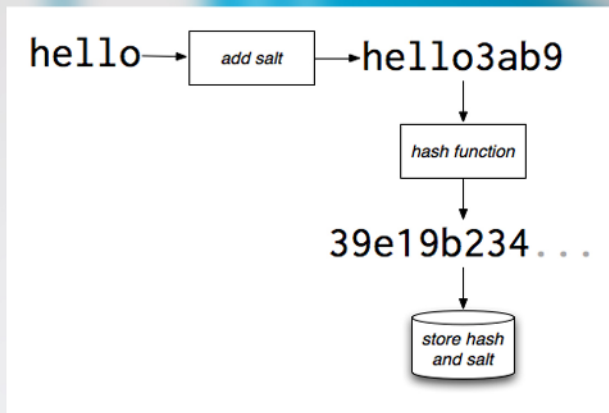
PASSWORDS ARE USUALLY CONVERTED FROM PLAIN TEXT INTO HASHING CODE WHICH CANNOT BE UNDERSTOOD BY OTHER HACKERS

CAN WE HACK THROUGH OTHER ACCOUNTS?

THE PASSWORD OF A INDIVIDUAL CAN BE IDENTIFIED BY USING TECHNIQUES LIKE:

- 1.RAINBOW TABLE**
- 2.DICTIONARY ATTACK**
- 3.BRUTE FORCE ATTACK**

TO OVERCOME THIS WAY OF ACCESSING OTHER ACCOUNTS POPULAR COMPANIES USE A DIFFERENT TECHNIQUE CALLED SALTING.



SALTING

PASSWORDS ARE OFTEN DESCRIBED AS “HASHED AND SALTED”.

SALTING IS SIMPLY THE ADDITION OF A UNIQUE, RANDOM STRING OF CHARACTERS KNOWN ONLY TO THE SITE TO EACH PASSWORD BEFORE IT IS HASHED, TYPICALLY THIS “SALT” IS PLACED IN FRONT OF EACH PASSWORD. THE SALT VALUE NEEDS TO BE STORED BY THE SITE, WHICH MEANS SOMETIMES SITES USE THE SAME SALT FOR EVERY PASSWORD. THIS MAKES IT LESS EFFECTIVE THAN IF INDIVIDUAL SALTS ARE USED. THE USE OF UNIQUE SALTS MEANS THAT COMMON PASSWORDS SHARED BY MULTIPLE USERS — SUCH AS “123456” OR “PASSWORD” — AREN’T IMMEDIATELY REVEALED WHEN ONE SUCH HASHED PASSWORD IS IDENTIFIED — BECAUSE DESPITE THE PASSWORDS BEING THE SAME THE SALTED AND HASHED VALUES ARE NOT. LARGE SALTS ALSO PROTECT AGAINST CERTAIN METHODS OF ATTACK ON HASHES, INCLUDING RAINBOW = TABLES OR LOGS OF HASHED PASSWORDS PREVIOUSLY BROKEN.



By:

C.SHARAN(17F134)
2ND YEAR
INFORMATION TECHNOLOGY



He have the capability of finding us. Though we maintain silence, he would find us and say come to me. He usually calls our neighbors and other dogs with care. But some thinks like he is simply barking for no reason. Actually he wished to have a happy time with them. Mostly, many people love Tommy. They often call him Tommy! Tommy! .He also fond of them. Because of him everyone wear a smile happily. I can say he is a hero and lucky charm for everyone. He never and ever harm anyone. He likes massaging and patting him. He feels more comfortable by this. He likes to play catching the ball and running chasing games.

**"Dogs do speak, but
only to those who know
how to listen."**



He afraid for fireworks now-a-days, in this time he wants us to be with him. But in his age one, he played nearby fireworks. We know hearing power will be more for dogs than other living beings. This may be the reason of his fear. We take care of him with love as our family member. He does think as the same. He means everything to me. My happy times and sad times are with him. I feel blessed and refreshed being with him.



He turns my sadness to happiness. His tender is one that wipes away the tears of mine. He is one of my precious and favorite treasure I have. He is a true companion for me forever. Every day with him is so special and memorable.

**J.pooja
IT-B**



The background is a vibrant, abstract composition. It features a dense array of orange and red splatters, blotches, and ink-like marks of varying sizes. Overlaid on this organic texture are several white, geometric, stepped shapes that resemble architectural elements or stylized letters. These shapes are positioned in the upper left, middle left, and lower right areas of the frame. The overall effect is one of dynamic energy and modern design.

STAFF ACTIVITY

AI is automating routine work, not taking people's jobs. At least for the next couple of years

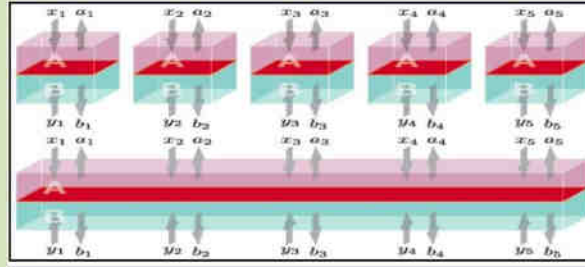
"AI is coming for your job" is one of the most discussed AI-related topics on the internet. The advancements in artificial intelligence do look like computers are much better than people at performing some tasks. For example, computers can go through hundreds of scanned legal documents in a few seconds and retrieve the needed data for a lawyer. But does this capability of an AI application mean that lawyers will soon disappear? Absolutely not.

Everybody heard about how AI conquered chess. But very few people know that what can beat an AI chess champion is a freestyle chess or centaur chess where a human player and an AI program play chess as a team. The same with lawyers. An AI algorithm can automate the process of legal document review thus making a lawyer much more productive. According to PwC's job automation study, only 3% of jobs are at potential risk of automation by 2020. This doesn't mean we can all just relax and take it easy. The same study claims that by mid-2030s 44% of workers with low education at risk of automation. The future of the job market will belong to people with creative minds who invest in lifelong learning.

Dr.R.Madumitha,

ASP/IT

QUANTUM CRYPTOGRAPHY



IN QUANTUM CRYPTOGRAPHY, THE LAWS OF QUANTUM MECHANICS ARE EXPLOITED TO SEND MESSAGES WITH HIGHER SECURITY THAN IS POSSIBLE IN CONVENTIONAL CRYPTOGRAPHIC SCHEMES BASED ON CLASSICAL PHYSICAL PHENOMENA. IN PRINCIPLE, QUANTUM COMMUNICATION ENABLES ABSOLUTE SECURITY THAT IS, NO ADVERSARY CAN INTERCEPT MESSAGES OR TINKER WITH THEM. BUT IN PRACTICE SUCH UNCONDITIONAL SECURITY IS NOT REALIZABLE. ONE MAIN ROUTE FOR AN UNAUTHORIZED PERSON TO 'LISTEN IN' IS TO MANIPULATE IN ADVANCE THE COMMUNICATION DEVICES THAT WILL BE USED LATER.

WRITING IN NATURE COMMUNICATIONS, ROTEM ARNON-FRIEDMAN AND COLLEAGUES PROVE THAT THERE EXIST QUANTUM-CRYPTOGRAPHIC PROTOCOLS THAT ENSURE NEARLY OPTIMAL SECURITY EVEN IF THE DEVICES ARE MANIPULATED, AND THAT SUCH DEVICE-INDEPENDENT QUANTUM CRYPTOGRAPHY SHOULD BE POSSIBLE WITH CURRENT QUANTUM TECHNOLOGY.

By,

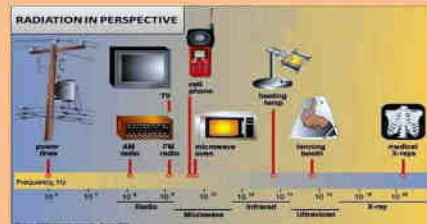
B.P.Sreeja,AP/IT

Mobile Radiation

When the caller start the call the electro magnetic field transmit from his mobile antenna which received by the closest base station "BS". Then the signal transmit from the BS to the switching center "SC" in order to check the authentication of the caller and receiver. After that the SC will transmit the signal to the closest BS in the receiver side. Next the BS is going to transmit electro magnetic wave which should be received by the receiver mobile antenna. Finally after the receiver open the line the two way communication connection establish between two persons.

How the radiation is produced by a cell phone?

- Cell phone radiation is transmitted by cell phone antenna in all directions
- Most of the energy lost in the space
- Part of the energy received by base station
- part of the energy is incident on human head



Electro magnetic signal transmit from cell phone antenna

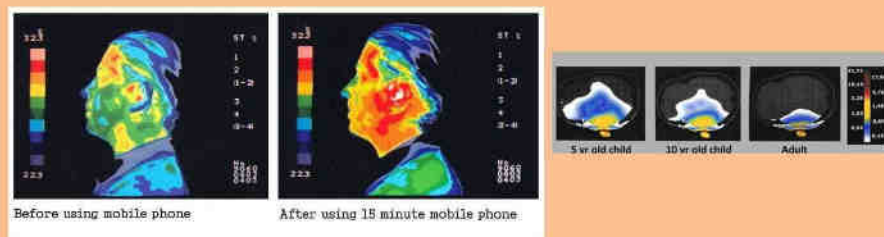
Note: The increased use of cell phones has brought about serious concerns regarding the probable health hazards. This is because mobile phones use electromagnetic radiation in the microwave range.

Maximum Power Transmit

- The Federal Communications Commission sets specific absorption rate "SAR" standard which is acceptable power radiation for cell phones must not exceed 1.6 W/KG
- The lower the SAR the better the phone, from a potential health hazard

Thermal Effects

Heat generated on the face by 15 minutes of cell phone use due to their electromagnetic radiation



Radiation Penetration in the head of an adult, ten year and five-year old

When radiation hits the head, it penetrates the skull. The pictures above are the result of an experiment show how radiation penetrates the skull of an adult (25%), 10 year old (50%) and a 5 year old (75%). The younger the child the deeper the penetration due to the fact their skulls are thinner and their brains contain more fluid than adults'. Radio frequencies travel through children's brains much more easily and therefore increase the risk of cancer.



Fatigue



Headaches



Loss of sleep



Memory loss



Ringing ears



Joint pains

Consider the following when using your mobile phone

- It is not only the choice of phone, but how you use it that is important when you want to control the amount of radiation you are exposed to. Here you will find a few simple tips that can considerably reduce radiation and therefore also health risks.

Use a handsfree set

- The further away from your body the phone is, the less radiation you are exposed to. Using a hands-free set is the easiest way to radically reduce the amount of radiation you are exposed to if you use a mobile phone.

Hold it at the bottom

- By covering large areas of the phone with your hand, you reduce its ability to send and receive signals. The phone then increases its power and transmits stronger radiation to compensate this. So hold the phone as far down as possible, so it can operate at low power.

Get in the best position

- You can see the signal reception strength in the display. When reception is good, the phone reduces power and radiation. If reception is poor, the phone uses maximum power and radiation.
- Don't talk too long and Use regular phone if possible
- The radiation you are exposed to is directly related to the time you spend talking on your phone. For longer calls it is safer "and cheaper" to call from a regular phone.

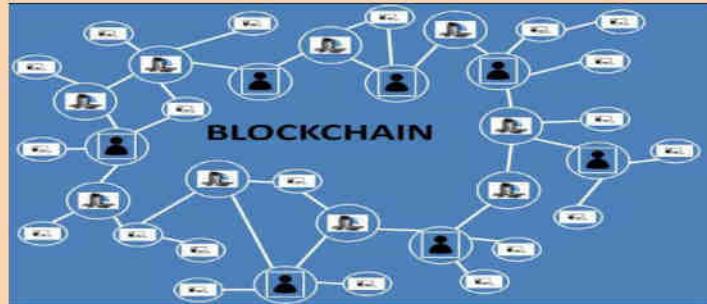
Hazardous areas of use

- Don't use a mobile phone while driving a car. Stop at a safe place and talk.
- Don't use your mobile phone in places where there is a lot of electrical equipment, such as hospitals and aircraft.
- Don't bathe with your mobile phone.
- Don't let small children talk on your mobile phone for long periods. They are more susceptible than adults.

Be Aware !!!

Dr.W. R. Salem Jeyaseelan
ASP / IT,

BLOCKCHAIN

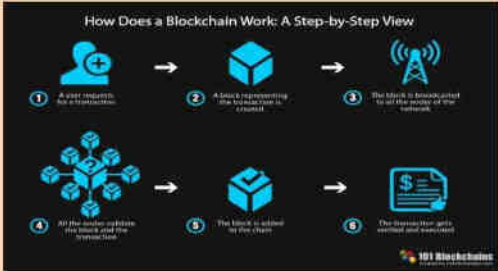


What is Blockchain?

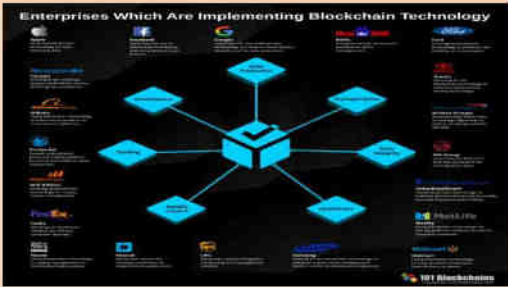
A blockchain, originally block chain, is a growing list of records, called blocks, which are linked using cryptography. Each block contains a cryptographic hash of the previous block, a timestamp, and transaction data. By design, a blockchain is resistant to modification of the data. Although most people think of blockchain technology in relation to cryptocurrencies such as [Bitcoin](#), blockchain offers security that is useful in many other ways. In the simplest of terms, blockchain can be described as data you can only add to, not take away from or change. Hence the term “chain” because you’re making a chain of data. Not being able to change the previous blocks is what makes it so secure. In addition, blockchains are consensus-driven, so no one entity can take control of the data. With blockchain, you don’t need a trusted third-party to oversee or validate transactions.

This heightened security is why blockchain is used for cryptocurrency, and why it can play a significant role in protecting information such as personal medical data. Blockchain could be used to drastically improve the global supply chain, [as described here](#), as well as protect assets such as art and real estate. And as the use of blockchain technology increases, so too does the demand for skilled professionals. In that regard,

we are already behind. According to [Techcrunch](#), blockchain-related jobs are the second-fastest growing category of jobs, with 14 job openings for every one blockchain developer. A blockchain developer specializes in developing and implementing architecture and solutions using blockchain technology. The average yearly salary of a blockchain developer is \$130,000.



The job of a developer is not the only one available in the blockchain space, however. Employers are also looking for software engineers, consultants and project managers. Jobs are available at financial institutions, but also in retail and healthcare, and soon probably manufacturing as well.



Ms.K.Oviya

,AP/IT

Tableau

TABLEAU IS A BUSINESS INTELLIGENCE TOOL FOR VISUALLY ANALYZING THE DATA. USERS CAN CREATE AND DISTRIBUTE AN INTERACTIVE AND SHAREABLE DASHBOARD, WHICH DEPICT THE TRENDS, VARIATIONS, AND DENSITY OF THE DATA IN THE FORM OF GRAPHS AND CHARTS. TABLEAU CAN CONNECT TO FILES, RELATIONAL AND BIG DATA SOURCES TO ACQUIRE AND PROCESS DATA. THE SOFTWARE ALLOWS DATA BLENDING AND REAL-TIME COLLABORATION, WHICH MAKES IT VERY UNIQUE. IT IS USED BY BUSINESSES, ACADEMIC RESEARCHERS, AND MANY GOVERNMENT ORGANIZATIONS FOR VISUAL DATA ANALYSIS. IT IS ALSO POSITIONED AS A LEADER BUSINESS INTELLIGENCE AND ANALYTICS PLATFORM IN GARTNER MAGIC QUADRANT.

Tableau Features

TABLEAU PROVIDES SOLUTIONS FOR ALL KINDS OF INDUSTRIES, DEPARTMENTS, AND DATA ENVIRONMENTS. FOLLOWING ARE SOME UNIQUE FEATURES WHICH ENABLE TABLEAU TO HANDLE DIVERSE SCENARIOS.

- **SPEED OF ANALYSIS** – AS IT DOES NOT REQUIRE HIGH LEVEL OF PROGRAMMING EXPERTISE, ANY USER WITH ACCESS TO DATA CAN START USING IT TO DERIVE VALUE FROM THE DATA.
- **SELF-RELIANT** – TABLEAU DOES NOT NEED A COMPLEX SOFTWARE SETUP. THE DESKTOP VERSION WHICH IS USED BY MOST USERS IS EASILY INSTALLED AND CONTAINS ALL THE FEATURES NEEDED TO START AND COMPLETE DATA ANALYSIS.
- **VISUAL DISCOVERY** – THE USER EXPLORES AND ANALYZES THE DATA BY USING VISUAL TOOLS LIKE COLORS, TREND LINES, CHARTS, AND GRAPHS. THERE IS VERY LITTLE SCRIPT TO BE WRITTEN AS NEARLY EVERYTHING IS DONE BY DRAG AND DROP.
- **BLEND DIVERSE DATA SETS** – TABLEAU ALLOWS YOU TO BLEND DIFFERENT RELATIONAL, SEMISTRUCTURED AND RAW

DATA SOURCES IN REAL TIME, WITHOUT EXPENSIVE UP-FRONT INTEGRATION COSTS. THE USERS DON'T NEED TO KNOW THE DETAILS OF HOW DATA IS STORED.

- **ARCHITECTURE AGNOSTIC** – TABLEAU WORKS IN ALL KINDS OF DEVICES WHERE DATA FLOWS. HENCE, THE USER NEED NOT WORRY ABOUT SPECIFIC HARDWARE OR SOFTWARE REQUIREMENTS TO USE TABLEAU.
- **REAL-TIME COLLABORATION** – TABLEAU CAN FILTER, SORT, AND DISCUSS DATA ON THE FLY AND EMBED A LIVE DASHBOARD IN PORTALS LIKE SHAREPOINT SITE OR SALESFORCE. YOU CAN SAVE YOUR VIEW OF DATA AND ALLOW COLLEAGUES TO SUBSCRIBE TO YOUR INTERACTIVE DASHBOARDS SO THEY SEE THE VERY LATEST DATA JUST BY REFRESHING THEIR WEB BROWSER.
- **CENTRALIZED DATA** – TABLEAU SERVER PROVIDES A CENTRALIZED LOCATION TO MANAGE ALL OF THE ORGANIZATION'S PUBLISHED DATA SOURCES. YOU CAN DELETE, CHANGE PERMISSIONS, ADD TAGS, AND MANAGE SCHEDULES IN ONE CONVENIENT LOCATION. IT'S EASY TO SCHEDULE EXTRACT REFRESHES AND MANAGE THEM IN THE DATA SERVER. ADMINISTRATORS CAN CENTRALLY DEFINE A SCHEDULE FOR EXTRACTS ON THE SERVER FOR BOTH INCREMENTAL AND FULL REFRESHES.

*By
Ms.N.Vaitheeka,
AP/IT*

WOMEN EMPOWERMENT

Playing multiple roles in families, women have already proven their worth, but still their condition on social and economical fronts has not been up to the mark and in many parts of the world they are forced to lead a miserable life. In such a scenario, it calls for immediate attention to empower them and create conducive environment for their social and economic upliftment.

Women Empowerment is Urgent for Integrated Development

Women empowerment is a must for the betterment of any country's future as they play dual responsibilities of managing their families while simultaneously juggling to earn to contribute in fulfilling the material needs of their families. No one can ever ignore the importance of the role of a mother, sister, or a daughter in their families. At the same time, women have also established themselves as equal contributors in managing the financial requirements of their homes. On international level as well, women have successfully created their unbeatable position, but they are just a handful in comparison to their not so fortunate counterparts.

Remarkable Performance in sports:

On various international platforms, women have successfully proved that if given a chance they can perform no less than their male counterparts and the recently concluded RIO Olympics bears a testimony to this fact. No one can ever forget the names of RIO stars - Sakshi Malik, PV Sindhu and Dipa Karmakar - who became successful in breaking the barriers of gender to raise India's national flag high in front of the whole world. There is no denial to the fact that in a male dominated country like India, it would have

been really hard for them to emerge out of the various prevalent taboos to achieve such positions of eminence.

Victims of Discrimination:

Due to long prevailing gender discrimination and dominance of men in the Indian society, women have been suppressed in their families and society at large. Even they have been prone to violence and various discriminations by the male members, even in their own families. The situation is no different in many other countries of the world. Except some European nations most of the other countries in the world are prone to serious gender discrimination, akin to India.

A Long Way to go:

In rural areas, the condition of women is far from satisfactory and their contribution to the economy is also negligible. Though they make for almost 50% of the population of the country, they have not been empowered enough to get equal opportunities in realizing their fullest potential. In such condition, we can say that our country cannot become a developed nation unless we empower women in the true sense of the term. It is very necessary to pay proper attention to their development by providing them equal opportunities in all areas of human activity.

Winds of Change:

Though Women have been given a special place in every religion, many ill practices have been going on against women as a norm since ages. But positive changes are now visible and the patriarchal system of society has been gradually eroding. Women are now

claiming the socio-political rights (right to work, right to education, right to decide, etc) for themselves.

The successive governments have implemented various constitutional and legal rights to help women lead purposeful and meaningful lives. There is an increasing awareness about women's rights which is evident in the emergence of several NGOs and self-help groups. At the individual level too, women are now breaking the shackles of suppression and making their voices heard for their rights.

The Parliament of India too has passed various legislations to save women from various forms of injustice and discrimination. Following are some of these laws to empower women: Equal Remuneration Act-1976; Dowry Prohibition Act-1961; Immoral Traffic (Prevention) Act-1956, Medical termination of Pregnancy Act-1971; Maternity Benefit Act-1961; Commission of Sati (Prevention) Act-1987; Prohibition of Child Marriage Act-2006; Pre-Conception & Pre-Natal Diagnostic Techniques (Regulation and Prevention of Misuse) Act-1994; and Sexual Harassment of Women at Work Place (Prevention, Protection and) Act-2013.


More recently, in the wake of Nirbhaya case involving the rape and brutal murder of paramedical student in Delhi, the government has passed the Juvenile Justice (Care and Protection of Children) Bill, 2015. This Act makes a significant departure from the earlier Juvenile Justice (Care and Protection of Children) Act, 2000, as the juvenile age inviting punishment for offence now stands reduced from 18 to 16 years.

Conclusion

If we want to bring about women empowerment in the true sense, there is a crying need for the elimination of the male superiority and patriarchal mindset. Also,

women need to be given equal opportunities for education and employment without any sense of discrimination. Unless there is attitudinal change in society towards women, merely arming them with legal and constitutional rights will be simply inadequate.

*N. Ganitha
Aarthi, AP/IT.*

The background is a vibrant, abstract composition. It features a dense array of orange and red splatters, blotches, and ink-like marks of varying sizes. Overlaid on this organic texture are several white, geometric shapes: a large 'L' shape in the upper left, a smaller 'L' shape in the lower right, and a central square. The text is centered within the white space created by these shapes.

DRAWING & PHOTOGRAPHY



SARANYA B,II IT B



VIDHYA BHARATHI R , II IT B



அம்மா

என்ரு உறவு
கில்லா கிடபால்
கிந்த உலகமும்
சுனாக்கை தான்...

- ஸ்ரீ



HARI PRASAND M,
II IT B



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