



B. M. S. COLLEGE OF ENGINEERING

2019



Stride  
2020

Striven to Excel

2021

Department of Computer Applications

## FOUNDER



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## VISION

To emerge as a premier knowledge center for imparting education in Computer applications.

## MISSION

- \* Empower students with knowledge, skills and attitude to develop competency in Computer applications through well-defined curriculum and its effective implementation.
- \* Engage in research and development leading to publications/start-ups.
- \* Enhance active collaboration with Industry.

The Department of Computer Applications was established in 1984, initially was an intake of 30 students and their department admit 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. The MCA programme got accredited for 5 years from 2019 to 2024 by NBA. It is a prestigious quality recognition awarded by National board of accreditation for MCA programme.

The department has state-of-the-art Computing Lab with more than 100 modern PCs and an exclusive department library with over 6000 books and access to various journals & conference proceedings. In addition, the department has developed Innovation Cluster Lab (ICL) supported by Industry Experts and Data Analytics and Research Lab (DAR) to promote lifelong learning, innovation and research.

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 student in that campus recruitment. The Data analytics research lab of the department provides an opportunity to view hidden knowledge from large volume of data sets. The students of the department, over the years, have been absorbed by esteemed companies and are considered assets in the industries.



## HOD'S MESSAGE

Dear Young bright friends,

Firstly, I acknowledge and appreciate the dedicated team work from the student coordinators and faculty mentor, **Dr. S Uma** to bring out our department annual E-magazine "STRIDE". Great work friends! Keep enjoying such work! Such activities make you to hone wide spectrum of skills to lead and enjoy your life.

I am happy to know that the magazine is collection of innate talents in the form of write-ups on emerging technologies, poems, sketches, thoughtful writings, and so on. Put is in simple words, the STRIDE is a culmination of your creativity.

To share about our department, the MCA programme got accredited for 5 years from 2019 to 2024 by NBA. It is a prestigious quality recognition awarded by National board of accreditation for MCA programme. .The MCA curriculum includes Internships, Projects, Mini-projects, Soft Skills, Industry visits, Emerging technologies like Machine Learning, IoT, Big Data, Block Chain, Agile methodologies, etc. The department has collaborations with IIT Bombay and IIT Kharagpur to implement MHRD project "NMEICT", AIKYA (a forum for societal activities). As part of AIKYA, the department adopted a govt. school to improve the learning of school children.

The College/Department attracts hundreds of companies every year to provide jobs to our students. Most of the eligible students get placed in reputed companies. The quality of our students is reflected in their placement track record (both on Campus & off Campus) and the applications developed by them. Learning is a continuous process and does not end at end of the programme. The department believes that innovative teaching-learning methods, coupled with problem solving using modern tools & self-study helps the students to enhance their skills and enable them to handle the challenges faced in their professional life.

Friends, remember always to contribute to the Society in your own way! **Never give up.**

Dr. K. VIJAYAKUMAR



## FACULTY COORDINATOR'S MESSAGE

Dear Reader,

On behalf of Department of Computer Applications, BMSCE we are proud to present our student-run E-Magazine **STRIDE-2020**. STRIDE is a platform for M.C.A students to showcase their broad spectrum of innovative and creative talents. This E-Magazine is crafted and moulded with interesting scientific and artistic imprints of young minds. Through this magazine, our students have once again proved that they not only excel in academics but also at extracurricular activities.

The magazine committee members have devoted a remarkable amount of time and energy to bring out this amazing magazine. Despite the challenges owing to pandemic, their tireless efforts has made STRIDE-2020 a reality. Their dedicated and thoughtful work has overcome all the hurdles. It is my pleasure to congratulate the entire magazine committee for their sincere commitment and incredible contribution. I wholeheartedly appreciate and applaud the student community for submitting articles of excellent quality. Our Alumni deserves a special mention for providing inspiring write-ups and valuable guidance.

I take this opportunity to thank the HoD, Faculty and other staff of Department of Computer Applications for their high level of motivation and unconditional support for the timely release of this E-Magazine. So, why should you wait? An informative and delightful visual treat is ready for you. Immerse yourself into STRIDE-2020.

Dr.S.UMA

A handwritten signature in black ink, appearing to read "Dr. S. Uma".



## STUDENT COORDINATOR'S MESSAGE

On behalf of the entire Computer Applications department and all the readers I extend my whole hearted gratitude to the honourable HOD **Dr. K Vijaykumar** Sir, and also to our **Mentor Dr. S Uma** Ma'am, for their inspirational, enthusiastic contribution and boosting our confidence for the consecutive publishing of **13<sup>th</sup> Edition** of the Magazine **STRIDE-2020**.

This Edition is particularly special as it was a challenge to not only live up to the standards set by the previous Editions but also to set a Brand new one. Our challenge was to make this edition better than the previous and update our readers with the latest trends of technologies.

From article collection to the final edits of the magazine more or less smooth sailing. I worked closely with the team to make sure everything was done according to a planned schedule. The work was performed in an organized, almost professional manner and the credits go to our entire Stride team, for their commendable job. I would also like to thank every member of the Stride team.

Lastly, quoting my special thanks to Our **Mentor Dr. Uma** ma'am for her continuous support, guidance all along and motivating everyone in each phase of the magazine, and also to our **Lead Editor P L Nishanth Bhat** for his remarkable contribution for the magazine, the departmental faculty members and also to all our Stride team members without whom this Issue wouldn't have been possible. We hope all the readers will enjoy this Edition as much as we enjoyed making it.

KUSHAL S L



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## EDITOR MESSAGE

**“Success is very simple to achieve, we just want to do the right hard work at right time in a right way.”**

At the outset, on behalf of the Computer Applications Department and all **STRIDE** readers, I owe a special debt of gratitude to our beloved HOD **Dr. K Vijayakumar** for providing us an encouraging platform to showcase student's talents and also for his constant support and guidance throughout this E-Magazine. His sincerity, thoroughness, and perseverance have been a constant source of inspiration for us.

I would also like to convey my deep gratitude to our Mentor **Dr. S Uma** for her whole-hearted support and help towards the E-Magazine. She has showered us with all her extensively experienced ideas and insightful comments at virtually all stages.

Last but not least I would like to thank all my teammates who worked hard to make E-Magazine **STRIDE 2020** a great success.

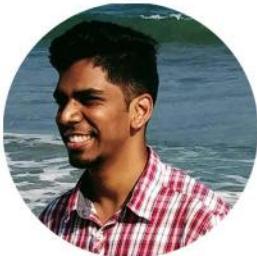
Computer Applications is an ever-expanding field and the power it has today is definitely beyond one's imagination. This edition of **STRIDE 2020** is full of articles on exciting new technologies and also included certain articles from an alumnus of BMSCE. **STRIDE 2020** not only includes technical kinds of stuff but also includes non-technical articles in English, Kannada, and Hindi. We have also covered arts work from great artists of BMSCE. We hope all readers will enjoy reading **STRIDE 2020**.

P L Nishanth Bhat

Lead Editor **STRIDE 2020**

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# Stride 2020 Team



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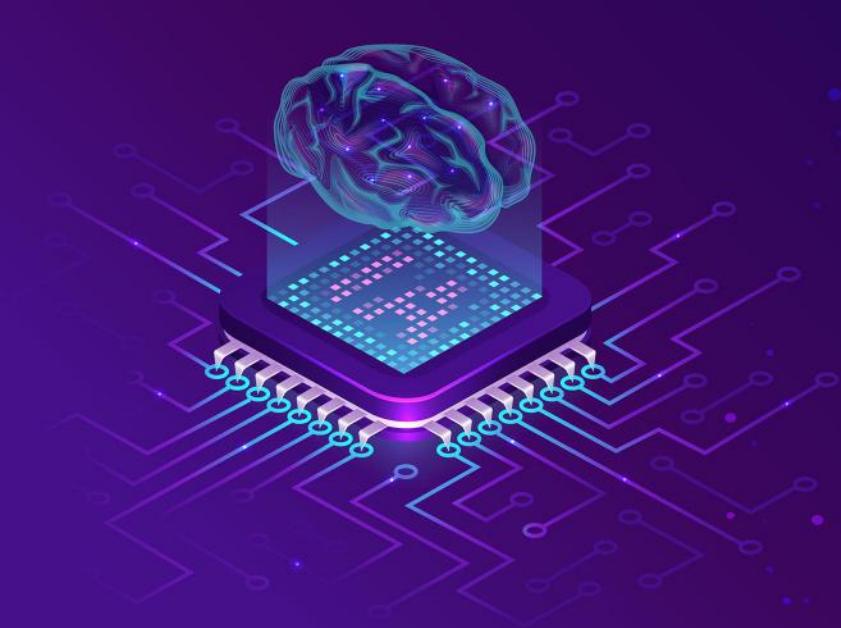
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# TECHNICAL

DEVICE TECHNOLOGIES

MOBILE COMPUTER APP

## ARTICLES



# The Future of Artificial Intelligence

Have you ever wondered how Google Assistant, Alexa or Siri answer all your questions? Well, the answer is “**Artificial Intelligence**”.

**A**rtificial intelligence (AI) also known as machine intelligence is impacting the future of almost every industry and every human being. Artificial intelligence has acted as the main driver of many emerging technologies like robotics, IoT, machine learning, big data and many more.

Remember those Hollywood science fiction movies that we watched or even the Bollywood movie ‘Robot’, where the Robot could even understand human emotions? Well, those may not be ‘fiction’ for long.

There are gaming applications, for example “AlphaGo” where the AI learned how to play without any human interaction, made up strategies on its own. So this means if we continue to develop AI then that means there's going to be more & more non-human intelligence. Eventually there's going to be a point where the future could no longer be in our hands- it might be in our machines hands!

That's fine we can just turn it off. Right?

It's just a thought but think about it, when modern humans begin to take over the planet why didn't the chimps and Neanderthals turn us off? If this AI becomes super intelligent & learns through & is connected to the internet we can't just shut down the entire internet, there's no off switch button. So what happens if we end up stuck with AI that is constantly getting smarter than we are? What if it gets to a point that we, humans, get in the way and the AI hits the off switch on humans? Scared?

There are a lot more types of AI that serve different purposes. AI Narrow intelligence also known as

good at speech & image recognition and also even good at playing games like chess or GO or even complex games like ‘DOTA2’. These AI games learned on their own.

If you use applications like Spotify, Amazon, Flipkart, or YouTube you'll see that it suggests things based on your searching habits, these AI teaches themselves how to do the task at hand. How is that even possible? Well through something called “Machine Learning”. Machine Learning is the science where the computers get to learn and think like we humans do. Machine learning is essentially the same way that babies learn, we start with small screams, but over time we improve our learning by taking more information & data from observations & interactions. In AI this is done through a process called a neural network. A Machine can not only analyze data given to it but also learn from it and adapt its own view of it.

Artificial General Intelligence (AGI) is almost or equal to human level intelligence and this is where we're trying to get to. But it's harder to achieve. When someone asks you complicated questions, you have to sort through tons of thoughts and observations and articulate a response to the question. This isn't the easiest thing for the computers to achieve. Computers can transmit information at the speed of light and we humans aren't able to process the information at the speed of light like computers but we can plan things, think of smarter ways to solve problems. Getting computers to human level thinking is hard. It's very hard to teach a computer to laugh, create societies, play games like we humans do. How can you teach a computer to create something that doesn't even exist or hasn't even been thought of?

Many people consider that Einstein is at the top level in the list of intelligent people. But if AGI can

function like a human being then it may most probably be right above Einstein level. But this just isn't the case. Although AI might not be at human level intelligent yet, it will be one day and it won't stop at human level. It'll most likely continue getting more advanced which is beyond the imagination. This is what's known as the 'Technological singularity'. Where AI becomes so advanced to the point where there's an extreme explosion of new knowledge & information. Some that might not even be understood by humans.

If the super intelligent AI is created, that AI would be able to improve upon itself and in turn gets smarter in a shorter amount of time. The first recreation may take a month, the second a week, the third a day and this keeps going until it's billion times smarter than all of humans.

Compared to chimps, we humans share about 96% of their DNA, but in that little 4% we went from being extremely hairy primates to species that are ruling the world, that has left the planet and has plans to colonize mars. All compacted down into that 4% DNA difference. There are like 10,000 trillion ants on the earth. Ants outnumber us 1 million to 1 and yet we actually live like they don't exist at all. What happens when the day comes where AI becomes the humans in this situation & we become the ants?

We tend to think our software is something that we program in the computer to follow our rules but super intelligent AI is different. With the highly advanced AI & through machine learning the AI teaches itself how & what life is as well as how to improve it. After a while there is no need for any human interactions. But just because we make a super intelligent AI, that doesn't mean it's going to be wise. We have to be careful about how we make it. There's a difference between intelligence and wisdom.

If we give AI an order to solve world's hunger, the easiest way to solve world's hunger is just to kill all life on the planet & then nothing would ever be hungry again. But obviously that isn't what we want. We would need to somehow teach the AI to possess human-like values, an ethical code to follow. But how do we program something like consciousness or a limbic system into a machine? Something that features a sense

of fear may be even a fear of death. Can a machine or an AI really love someone or show that affection and emotions? Because if it can love it can also hate which could raise big problems in future. The biggest question that everyone has is, will it be pleasant or hateful? Could it even be either of those things in the first place? And more importantly is it even necessary?

Sure a super intelligent AI would have all the information and data in the world at its disposal. But then again, so do you & I. So what if this super intelligent AI adapts the views on its own and then decides to execute on those instead of what we had planned? Sure it is possible that it could improve upon itself using knowledge gained. What if a number of its upgrades needed experiments to be run? What if it needs more information? Is it just going to make it up? This leads into: What if AI learned to lie? And then decides to lie to us about its accomplishment for its own selfish reasons.

It's almost obvious that super intelligent AI has the capability of making humanity billions of times better than it is today but on the flip side it could be used as a weapon also. Imagine if it gets into the wrong hands. When we google something we feed it all our questions, all our answers. If we were going to try & program a limbic system into AI we would be teaching AI what we are afraid of.

AI learned how to recognize faces, voices and learned languages and it translates between them. There are many restaurants where the food is served by robots. There are self-driving cars. There are business scenarios that includes spam filtering, product suggestions, dynamic pricing and much more. AI is taking over in all the fields.

Super intelligent AI is the invention that humanity will make. Once it's invented it can't be uninvented. The technology and development that could possibly turn the human species into immortal godlike figures is coincidentally the same technology that could also cause the downfall of humanity.

Many people are resistant to AI because they fear it may have some of the negative traits that we humans do. It may be greedy. It may lie. It may be selfish, rebellious or short-tempered. The super intelligent AI is there patiently waiting to be found.

But the question is, "DO WE ACTUALLY WANT FIND IT?"

# CORONAVIRUS



Covid 19

impact on IT field

The IT industry has been India's crown jewel in our country's economic growth story for the past two decades. The industry has provided global recognition for Indian youth's technology and entrepreneurial capabilities and immensely contributed to improve India's international image. The outbreak of Covid-19 has severely impacted the global economy, with disrupting businesses across diverse sectors around the world. The spread of the virus now has led countries into lockdown, fearing the economy of a recession.

However, due to coronavirus Covid-19 outbreak, players in India's IT services, according to industry analysts, will see a significant slowdown in growth during this financial year. Reports claim that top software exporters, including Tata Consultancy Services, Infosys, and HCL Technologies, will be

**The major impacts of covid19 on IT industry are :**

## 1. It led to the cancellation of several tech seminars

The world-renowned, Mobile World Congress(MWC), which was set to take place on Feb 24th, 2020 in Barcelona, was cancelled due to COVID-19 impacts. This is likely to result in numerous missed partnership opportunities.

## 2. World has realized the need for 5G

5G's lightning-fast speeds, near-instantaneous communications, and increased connection density make it primed for remote interactions. Two major areas, Telehealth and Teleconferencing, are becoming essential for firms amid this pandemic.

- **Telehealth:** This empowers the physician to diagnose, treat or operate a patient without being physically present there.

- **Teleconferencing:** Employers have increased their trust in teleconferencing tools such as Microsoft Teams, Google Hangouts, Zoom and Skype. This is because the majority of IT employees are working remotely.

## 3. Travel restrictions delaying project execution

The world-renowned, Mobile World Congress(MWC), which was set to take place on Feb 24th, 2020 in Barcelona, was cancelled due to COVID-19 impacts. This is likely to result in numerous missed partnership opportunities.

## 4. The supply chain is broken

The majority of the country's people were forced into quarantine. This has led to a partial and full shutdown of plants and factories. Generally, companies always have a plan B for productions considering the natural calamities, and so they start with the production in areas which have not been affected. But with Coronavirus, the things are a bit different as it has spread globally and so it is very difficult to predict and also the supply chain had been affected which is very important for the growth of an organisation.

# Internet of Things

## In Our Day-to-Day Life



The internet of things, also stated as IoT, prefer it or not, understand it or not, has, in recent years, successfully disrupted our daily lives to the aim that even the non-technologically inclined have begun to commit the convenience, the comfort, and also the precious insights that it offers. From connected home hubs, smart thermostats, remote door locks, and each one of the numerous app-controlled appliances, likelihood is that, you already understand how helpful IoT is in your lifestyle.

### WHAT IS INTERNET OF THINGS ?

The term IoT refers to things that we use every day that also connect with the web, allowing us to either control or receive data from this "thing" from our smartphone or computer.

Examples of how we use Internet of Things in our everyday lives include:

- Smart appliances (stoves, refrigerators, washers and dryers, coffee machines, slow cookers)
- Smart security systems, smart locks, and smart doorbells
- Smart home hubs (that control lighting, home heating and cooling, etc.)
- Smart assistants, fitness trackers, sleep trackers, and smart scales, and more besides.

Emerging consumer trends in IoT that include smart active wear, smart athletic shoes, and connected vehicles that tell us everything from how close we are to the vehicles around us to the foremost effective route to travel as to avoid hour traffic.

No matter what sort of smart IoT application you use, most of you'll agree that the knowledge and convenience you get as a result has saved you time, money, and much of worry.

### IoT is making our lives better

IoT helps us work smarter, live smarter, and gain complete control over our lives, but it's also supporting our wellbeing behind the scenes.

In addition to our smart home devices, IoT could be a necessary technology in business and industry, because it gives businesses a real-time glimpse into the inner workings of their company's systems. From the factory floor to the customer's door, IoT delivers insights into everything from machine performance to supply chain and logistics operations. It also reduces waste and improves service delivery, making it less expensive to manufacture and deliver goods and providing transparency into customer transactions.

### The Value of Internet of Things

The true value of the internet of Things doesn't lay within the lights turning on when the car reaches the driveway, but rather the data that the connected devices collect about its users. Imagine a hospital with connected devices. the knowledge collected from those devices outputs information on the status of patients and runs analytics on the various monitoring machine, helping the hospital to run as optimally as possible.

The collection of data from devices will allow consumers, businesses and even entire connected cities to run more efficiently.



# Robotics

AI that changes the future

**A**rtificial intelligence is a branch of science which deals in helping the machine to find a solution to complex problems. AI mainly concentrates on building robots, these robots help humans in their day to day life, using these machines we can make them think as humans do. All the software companies, automobiles and many more industrial sectors are moving towards AI to help them create a better future. In this article, I would like to mention some existing robots which are helping humans in their day to day life to have a better future.

**Digit** is a humanoid robot that was created by agility robotics in the year 2019 in the United States. It has nimble limbs and a torso packed with sensors that will allow it to navigate complex environments and carry out tasks like package delivery assist is also envisioned to help take care of people in their homes and also assist with disaster response. In May, 2019 Ford company and Agility have announced a partnership to develop a last-mile logistics solution that combines Ford's autonomous vehicle technology and Agility's Digit.



**Pepper** is the world's first social humanoid robot which was created by soft bank robotics in the year 2014 in Japan which has the ability to sense human emotions based on their voice note and expressions, it has been adopted by over 2000 companies around the world. Perfect in retail and finance industries, Pepper has numerous functionalities including increasing store traffic by attracting the attention of shoppers, creating memorable in-store experiences, stimulating purchase and retain customers. Pepper can also gather comprehensive data to enrich the customer base and generate shopper insights.

**Spot** is a robot dog designed for industrial uses such as carrying goods through a warehouse and inspecting a remote site with an unfavourable environment for human operators. It can run at 5.2 feet per second, has 360-degree cameras, and can operate in temperatures ranging from 4 to 113 Fahrenheit. With its API and flexible payload interface, the robot can be easily customized for desired tasks. Spot is also manufactured by Boston Dynamics and is now being leased to eligible companies.



Atlas is the world's most dynamic humanoid robot built by Boston dynamics in US, and it was unveiled to the public on July 11, 2013. Boston dynamics was previously owned by Google and now by Soft Bank. The new version of the atlas is designed to handle both outdoors and inside buildings. Atlas is being more and more sophisticated over the years, thanks to its state of hardware and algorithm which allows it quickly understand instruction, Atlas is mainly concentrated on performing humans tasks where the environment is difficult for humans to survive. With its 28 hydraulic joints, 4.9 feet of height and 176 pounds weight, the robot can perform both impressive terrifying acts including navigating uneven terrain, jumping around a parkour course, doing somersaults. All these activities demonstrate human-level agility so the robot can be perfect for search and rescue operations.



ATLAS



AQUANAUT

**Aquanaut** is an advanced unmanned underwater transformer that can transform itself from a nimble long-distance submarine into a half-humanoid robot capable of carrying out complex underwater manipulation tasks. Designed by Houston Mechatronics Inc, Aquanaut can inspect subsea oil and gas infrastructure, operate valves, and use subsea tools with just a few mouse clicks. Operating completely untethered and without support ships, Aquanaut can travel more than 124 miles in submarine mode, has a max speed of 7 knots and a maximum operational depth of 984 feet.

**Surena IV** was officially unveiled On December 14, 2019, it is the fourth-generation robots designed by Surena humanoid robot. The robot has been developed in CAST (Centre of Advanced Systems and Technologies) by more than 50 researchers under the supervision of Dr. Aghil Yousefi-Koma, Professor of Mechanical Engineering at the University of Tehran in Iran. Surena robot is capable of mimicking a person's pose, grasping a water bottle, and writing its name on a whiteboard. With a height of 5.6 feet and a weight of 154 pounds, this robot can walk at a speed of 0.43 miles per hour. Its custom force sensors at the bottom of its feet help the robot step over uneven surfaces by adjusting the angle and position of each foot.



SURENA IV

Robotics and other combinations will make the world pretty fantastic compared with today.

- Bill gates



TEJAS Y K  
4TH SEM

# Unreal Engine



Epic Games, Inc. is an American video game and software developer company in North Carolina. The unreal engine (UE) is gaming engine developed by epic games in the year 1998 which is the most powerful real-time 3d creation platform. it is a set of tools that helps developers render graphics, build characters, animations, and reproduce environments. Initially it concentrated on building first-person shooter games and later on it moved on and started developing other genres of games too. Unreal engine was developed by epic games using C++. It is the world's most open and advanced real-time 3D creation tool. Continuously evolving to serve not only its original purpose as a state-of-the-art game engine, today it gives creators across industries the freedom and control to deliver cutting-edge content, interactive experiences, and immersive virtual worlds.



As of now, it has four versions and the latest version is the unreal engine 4 which was developed in the year 2014. Till 2014 unreal engine is available only in a paid version. Later in 2015 They made download free for everyone and its source code is also available on GitHub. Epic games do not charge licensing fees from small developers to use the Unreal Engine because in initial days they do not have a lot of money paying royalty before the game really started to bring revenue and some profit in initial is challenging. So, they take 5 percent of royalties only for games that do more than \$1 million in sales.

In the past, only C++ programmer likes to use Unreal Engine but after new releases visual scripting with blueprints, made artists that are not coders to start working with Unreal Engine. Epic Games Unreal Engine 4(UE4) has been made many popular games, including its own hit Fortnite as well as Player Unknown's Battlegrounds (PUBG), developed by South Korea's Bluehole, and PUBG as record of highest player-base in mobile gaming industry and has no close competitors.

Eros has partnered to bring Unreal Engine to the movie industry. If you've seen The Mandalorian on Disney+ Hotstar, you'll have a fair idea of that Engine can do. Unreal Engine brings with it real-time rendering tech to the world of filmmaking, giving directors and VFX crews a ton of flexibility and creativity to play around with. The Engine also allows for what the industry calls pre-visualization. What this means is that filmmakers will be able to create a rough version of their film in CGI before they can film the real thing, giving directors the ability to see what the final product will look like without blowing through their budget.

Anyone can download unreal engine for Free with a minimum requirement of Windows 10 64-bit, 8gb RAM, and Quad-core intel processor or AMD 2.5 GHz. Learning Unreal Engine is easy compared to others because of the Easy-to-use User interface and Blueprints. Blueprints is a visual scripting system where we do not have to put in a single line of code. If having little C++ knowledge is an advantage. Many online courses available in India will begin to work with UE. Till now Unreal Engine is received with more 49+ awards and in 2014 it is awarded with Guinness World Record for Most Successful Videogame Engine.

### Beyond Imagination: UNREAL ENGINE 5(UE5)

Recently epic games revealed the Stunning Demo of unreal engine 5 on May 13 2020 and is expected to launch in late-2021. It supports all the existing systems including the generation consoles like PlayStation 5 and Xbox Series X, one of its goal is to achieve photorealism on par with movie CG and real life.

#### Major technology changes in UE5:

- One of the new technologies that made its debut with Unreal Engine 5 is Nanite, which enables developers to bring Real-life Environment into games and you can take 4K Cinema quality 3D assets. So that's like a massive change as you can save a lot of time and on top of it, it brings photorealistic gaming in the future.
- The other technology that is a core part of Unreal Engine 5 is Lumen, The Lumen technology is a dynamic illumination solution that reacts to scene and light changes in real-time. Designers and artists can create more dynamic scenes using Lumen by changing the sun angle for the time of the day, turning on a flashlight.

Once you get through the first look of UE5 you will get to know the exact features and use UE. The Engine is extremely user-friendly and has even allowed amateur game developers to create some truly stunning games in a way, Unreal Engine 5 will impact the gaming industry as a whole. The UE5 is not meant for just big developers and access to the latest hardware. The idea is to cut down on technical costs of game development and allow small developers to take advantage of the latest technology.

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4<sup>TH</sup> SEM





# Drone

## Reason behind ban in India

The term DRONE stands for Dynamic Remotely Operated Navigation equipment. A drone is also known as a flying robot or Unmanned Aerial Vehicle (UAV) which is an autonomous vehicle, remotely controlled by the embedded systems which include sensors and a GPS module. Abraham Karem was called as the father of drone technology. Initially, it was built to serve for military purposes but as science and technology emerged continuously it is now used in various platforms such as photography, precision agriculture, scientific, food delivery, surveillance, and other applications.

Drones are categorized based on their functional qualities such as goods and products delivery, commercial, survey to examine battlefield to provide military information. A flying drone's efficiency depends upon these factors namely weight, height, battery, speed to cover distant ranges which are essential for safe take-off and landing. Currently, the best leading drone companies are DJI(Dajiang) which has a large market share, Ambarella which has a high standard processing chips which offer clear footage and 3D Robotics is called as smart and cutting-edge tech companies in the world.

India banned the flying of drones on October 7, 2014. India enforced prohibition on usage of drones after an incident that took place in Mumbai. A flying gadget was used to deliver pizza to a flat which was around 1.5 km away from the pizza outlet without seeking the permission of the police. The video circulated quickly through media and the police registered a complaint against them as it was secure less.

They are some reasons too for banning drones were due to lack of technical knowledge in the operator, the drones would land in some unknown destination causing wounds to the people. These flying gadgets were used to drop bombs on the enemy region. These activities paved a way for terrorism in the upcoming days. Further operators play like video games and were responsible for the collision of land.

India has witnessed several instances of unidentified drone activity in between 2014 and 2018, Operations at the Indira Gandhi International Airport in Delhi were suspended for about 40 minutes on

Drones overall will be more impactful than I think people recognize, in positive ways to help society.

-BILL GATES

August 20, 2017, after a pilot spotted a drone nearby. There was a similar scare on July 25, 2018, and again on August 9. Earlier, in December 2017, drones appeared 4 times in 14 days causing disrupting operations at the Delhi airport. A similar incident took place outside India In December 2018, runway operations at London's Gatwick Airport were halted for around 36 hours after a drone was sighted in the area. Nearly 1,000 flights were canceled, stranding around 140,000 travelers. it is one of the greatest interruptions to air travel.

Between 2014 and 2018, the world moved ahead but India lagged as there was no formal policy to promote domestic manufacturing, develop local use cases and, support innovation. Nearly 90 percent of the drones during the period were imported (illegally) - most of which were sold by Chinese firm DJI.

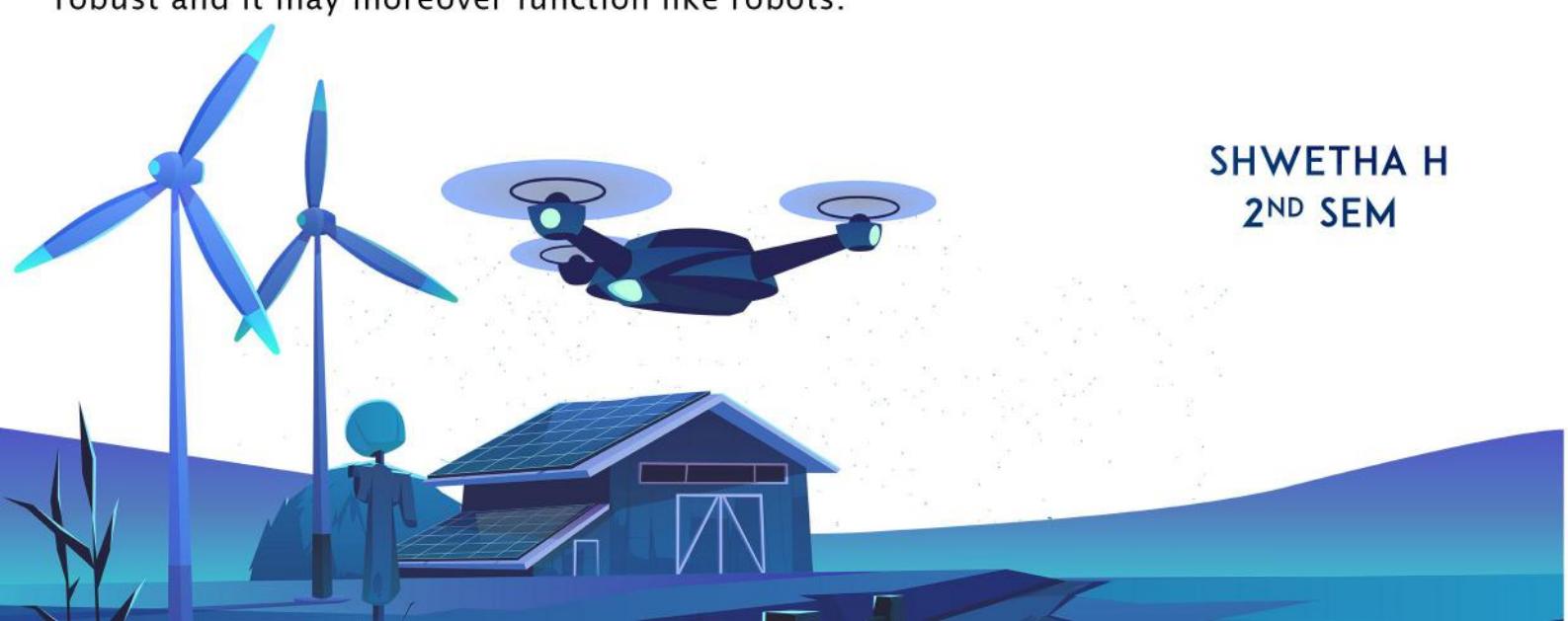
Later, Indian government and NPNT issued guidelines drone regulations 1.0 reduce such illegal activities and at present drone technology is lagging in India. So, with strict norms, the Ministry of civil aviation in India launched the event on December 1, 2018, and was made flying of drones legal. The key feature of drone regulations 1.0 has a huge digital root. Instead of simply digitizing a paper-based process for registering and operating drones, India has formulated an all-digital process. The manufacturing companies are required to obtain Unique Identification Number (UIN) and Unmanned Aircraft Operator Permit (UAOP).

According to the new policy introduced, the UAV's were manageable with No Permission No Take Off (NPNT) technology which means that if the operator doesn't have permission, the drone will not take off.

#### **The regulations are listed as follows:**

- ⦿ All drone operations must be performed during the daytime only.
- ⦿ Drones must not fly around airports, near the coastal line, army installations and international borders.
- ⦿ All drone pilots need to be licensed and all drones must be registered and must have Unique Identification Number (UIN) except nano category drones which weigh less than or equal to 250 grams.
- ⦿ A mobile app "Digital Sky" was launched to ask for permission, calculates the speed of the drone and distance it covers and an automated the process accepts or rejects the request for flying of the drone.

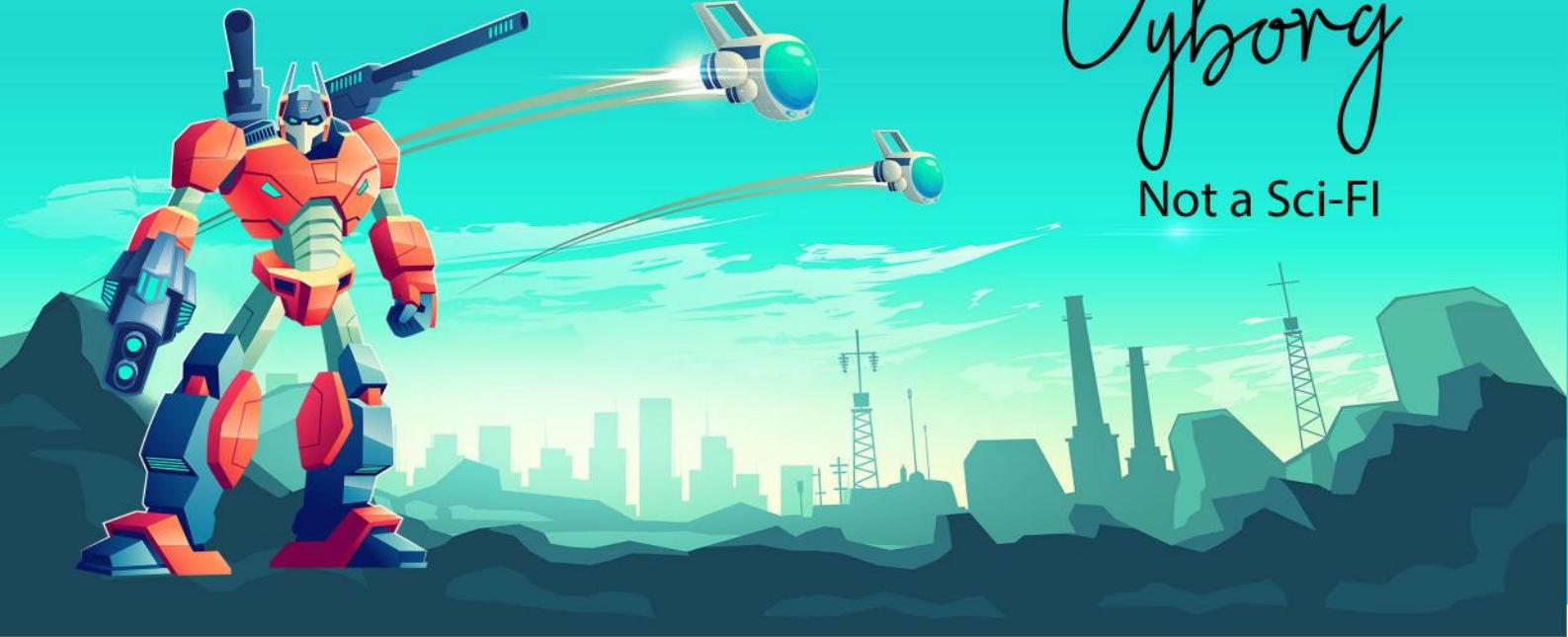
If we do not follow any of the rules, that particular drone's UIN would be canceled. Moreover, as technology advances, drones are now available in a compact size which is reliable, robust and it may moreover function like robots.



**SHWETHA H**  
**2<sup>ND</sup> SEM**

# Cyborg

Not a Sci-Fi



If I ask about Tony Stark or well known as Iron Man in 'Iron Man' Movie, Doctor Octopus in 'Spider Man-2' or one of my favorite terminator in 'The Terminator' movie, there will be very few people who are not aware of all this world-famous Sci-fi movie character. But if I ask about Cyborg, a very few will know what it is!

The Cyborg is a 'cybernetic organism' to enhance human capability with the help of Artificial Intelligent and non-organic body parts. So, Iron Man with his implemented arc, Doctor Octopus with these mechanical arms all are the representation of Cyborg in a fictional way. Is cyborg only scientific fiction or it is the new future? In this era, we are so advanced in digital technology and artificial intelligence that all these technologies are moving deep inside our human biological sphere. Cyborg technology enhances the anatomical, physiological, and informational processing abilities of human and also restore the lost functionality of any human. In that point of view, a person with a pacer in his heart is already a living cyborg. Arms build with machines and controlled by our mind is already between us. 'Captain Cyborg' i.e. Kevin Warwick in his 'Cyberphenomenology: Technominds Revolution'- special edition has divided Cyborg technology into four distinguish descriptions

Case 1: Technologies positioned close to the human body, but not in the human body.

Case 2: Technology implemented in the body, but not in the brain or nervous system

Case 3: Technology linked to the brain or nervous system to restore body normal activities

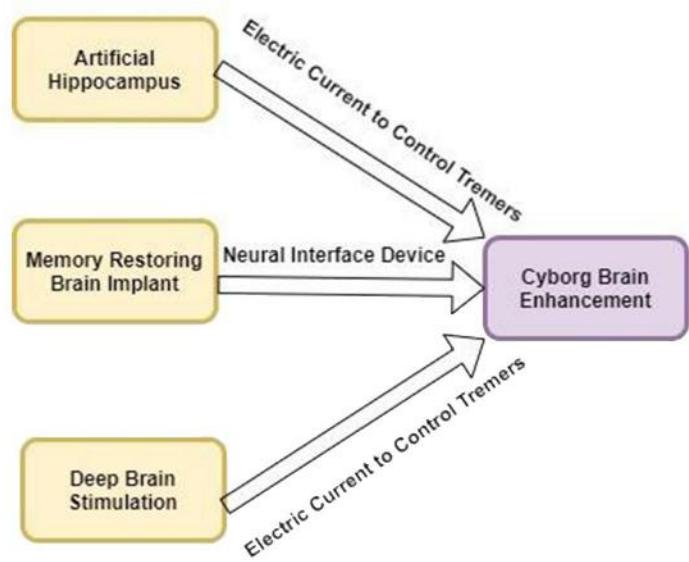
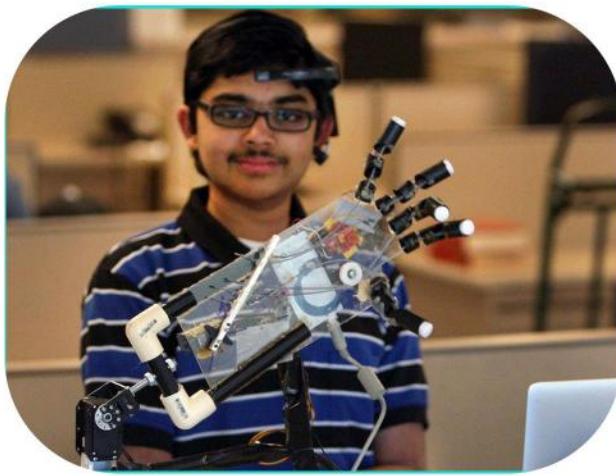
Case 4: Technologies linked to the brain or nervous system to enhance the normal human body actives



Technologies that are not directly implemented in the human body but enhance human actives are one of the highly demanding research matters and one of the well-known examples can be Google Glass. It places near to the eye as eye-wear that enhances the normal activity.

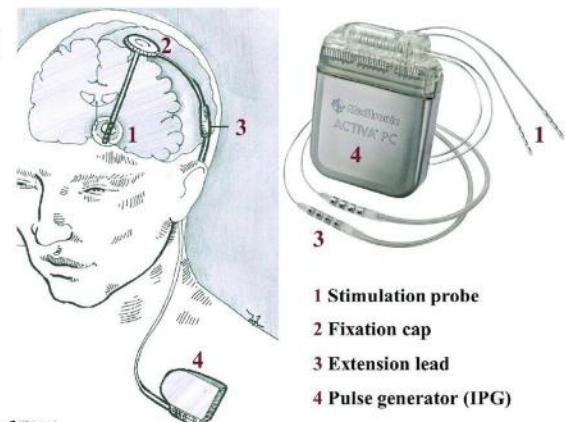
A robotic arm that can be controlled by your own thought has been created by Shiva Nathan. In this Cyborg technology, a robotic arm can be implemented in a human body who has lost his/her natural hand activity. A Mind Wave Mobile headset can be used to read the EEG waves and through Bluetooth that data can be sent to the computer. Then it gets translated into finger and hand gesture. Now after updating, this prosthesis hand can be controlled more accurately like using a key and preparing food.

The eye is one of the major sensory organs for human. Aging or any other accidental incident can affect the retina region of the eyes and disturb the human vision. It can be restored with an Implantable miniature telescope (IMT). This tiny telescope is implanted behind the iris and that helps to project the object onto a healthy area of the

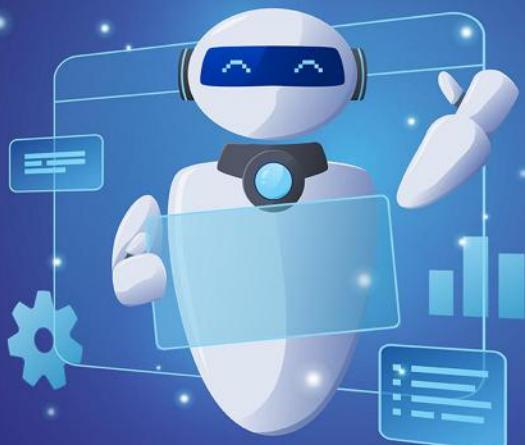


light-sensing retina. One of the famous living Cyborg is Neil Harbisson with visual enhancement. He had achromatopsia, a rare condition that allows him to see everything in black and white shades. With the help of a cyborg hacked into his head a sound conducting chip, along with a digital camera attached to his skull, Now Neil can differentiate color with sounds. With the updated software he also can hear ultraviolet and infrared frequencies. Now the question is can we really have a cyborg's brain? Yes, this fantasy is also becoming reality. Scientists have learned to restore brain signals using neural interfaces and applied the signal to control robotic limbs. Not only that, a Cyborg brain technology, named Deep Brain Stimulation(DBS), with the help of a surgical procedure can treat various neurological disabilities like walking problems, rigidity, slowed movement etc. In the DBS process, a small battery operated medical device called IPG (Implantable pulse generator) get implemented to a specific area of the brain that controls the movement of the body. This IPG blocks the abnormal nerve signal and delivers electrical stimulation.

A small device that makes human magnetic, a small chip to identify north, and a small implemented device to keep a track of your health or makes your identity easily scanable, makes us superhuman and yes all of these are possible now. IoT, AI, Robotic technologies are developing so much to control and imitate the human body and behaviors. Though so many limitations are yet to overcome, still this era has gone a step ahead to give successful cyborgs. Enhancing human capability to restoring normal human activities in all ways possible Cyborg technology will be our new future.



**SUMEDHA ROY**  
**4<sup>TH</sup> SEM**



Miko<sup>2</sup>

In today's world, kids get exposed to technology at a very young age and regularly they end up spending a significant amount of their time on technological mediums like social media and video games. This is definitely not good for them. But at the same time, removal of technology from their life is neither possible.

MIKO<sup>2</sup>

The world has seen revolutionary progress in the Robotics and Artificial Intelligence. But the impacts of these developments have been most felt in the industrial sector. Robots that can perform certain specific tasks are there in the domestic space, but the more sophisticated ones with interactive ability are yet to make inroads into our homes.

Miko, is India's First Companion Robot developed by a Mumbai-based start-up Emotix. Designed specifically for children above the age of five years, Miko is an AI-powered robot with an adaptive personality. An Advanced version is known as Miko<sup>2</sup> which acts as a Personal Robot for Kids. Miko<sup>2</sup> comes bundled with some of the best technologies. It has 34 sensor lines processed in real time, the new Miko<sup>2</sup> truly revolutionizes man-machine interaction to the next level. It engages, educates and entertains kids.



It's a child-safe personal robot that can see, hear, sense and remember child's moods. Miko<sup>2</sup> sees the world using the onboard HD camera, an integrated "Time of Flight" Sensor and edge sensors. Using state of the art computer vision, the camera helps to identify, remember and recollect known faces, objects and the world around it. The "Time of Flight" sensor helps it to survey and understand room and its setting over a period of time and detect obstacles. It uses dual active noise cancellation microphones to better understand the voice of child and cancel out any noise. Using beamforming, it can hear child's voice even from a distance and estimate their

direction to face them and have a conversation. It attempts to understand child's emotions, their voice and feelings through its camera and microphones. Every bit of this information is processed by our proprietary emotional intelligence engine. Using Hi-Performance speakers, it speaks directly to child with its unique voice.

## Features of MIKO<sup>2</sup>

### Grows with your child

Miko<sup>2</sup> automatically understands and responds to the child's moods, has meaningful chats and provides companionship.



### A cute little all-rounder

An all-rounder that doesn't just sing or dance to entertain child, but enables playing games and narrates exciting stories as well.

### Parental Control

With the Miko<sup>2</sup> App and its enhanced Parental Dashboard, there is greater control over Miko's interaction with your child



### Child and Data Safe

Miko<sup>2</sup> is completely safe for children! Child's data is encrypted and completely protected. The ownership of the data lies in hands as a parent.

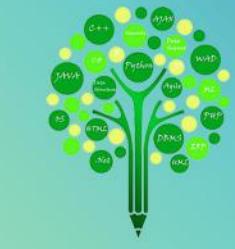
### Tele Connect

Tele Connect with child through Miko<sup>2</sup>! Yes, you can have a video call and remotely control your Miko<sup>2</sup> from work to talk to your child.



Every interaction with Miko<sup>2</sup> makes child smarter and happier. It opens up child's world to millions of possibilities. As Miko<sup>2</sup> interacts and spends more time with a child, it learns more about him or her. So, when child grows and changes, Miko also grows. Its knowledge base also increases with automatic updating. But parents need not worry as this little genius will not discuss any topic which is not meant for children. It is also responsible and ensures that child undergoes constant development and learning.





# Ecolib

A fully automated library application



**E**colib is a fully automated library application. Ecolib can be considered as a Cloud SAAS application. As the application could be hosted at one place and only the data could be sent to the client servers. The application as both web application and android application. The application was aimed to overcome all the cons of a traditional library management system. Ecolib was named so, as the application can be used without using a single piece of paper.

Ecolib's android application gives librarians the functionality to scan the student id cards and retrieve their library account information.

Ecolib's student application allows the student to have a look into their transactions, the current issued books , the fine on books, last date of return and much more functionalities.

## EcoLib's advantages over the Traditional Library System:



PAPER USAGE

Traditional Library System: 200 library cards per year

Ecolib: 60 Library Cards/StudentID per year

The traditional library system used to use a separate library card dedicated just for the library. On an average roughly 150-200 library cards were issued to the student's were they were issued three library cards.



TIME CONSUMPTION

Traditional System: 2minutes/ book issual

EcoLib: 10 seconds/ book issual

The time consumed was high as there were a lot of manual activities involved. Ecolib uses mobile app / barcode scanner to scan the id cards in fraction of seconds.



COMPLETELY DIGITALIZED

Traditional System: Used Manual logging system

EcoLib: Stores all the transaction details on the cloud

Since all the details are stored online it is easier to search among all the transaction details. The data of these transaction can be extracted and converted to valuable summaries



Importance of implementing

# Design Principles

in Software Development

**S**oftware design principles are concerned with providing means to handle the complexity of the design process effectively. Effectively managing the complexity will not only reduce the effort needed for design but can also reduce the scope of introducing errors during design.

Software design is the most important phase of the software development cycle. Thinking about how to structure code before you start writing is critical. Changes and updates will inevitably arise. Good software design plans and makes allowances for added features, algorithm changes, and new integrations.

Software design may not be the most exciting aspect of coding, and it kind of gets in the way. But if you're looking for a resilient software with no code smells then, software design principles like SOLID, KISS and DRY aren't things you want to neglect.

Here are **5 important software design principles**. At the very least, one should be aware of them when writing a new software.

## DRY - Don't Repeat Yourself

Don't Repeat Yourself is the principle that any code in your program should only be written once, and never duplicated. The DRY principle is one of the oldest and best-known software design principles, and employing it makes your code much easier to edit and scale.

## SOC- Separation of Concerns

Separation of Concerns is when you separate your program into modules that each deal with one focus, or concern. A concern could be several different things:

- an action or process
- a data structure
- a property of something and so on.

HTML, CSS and JavaScript are good examples of the separation of concerns, because each language deals with one concern. HTML deals with page structure, CSS with page styling and JavaScript with page behaviour.

The most important single aspect of software development is to be clear about what you are trying to build.

- Bjarne Stroustrup

## Don't Make Me Think

This principle was originally intended for web design. The idea is that a web interface should be dead simple for anyone to use and navigate, and it shouldn't require any 'thinking' on the user's part.

The Don't Make Me Think principle has been adapted for coding. Your code should be written in a way that is logical and understandable, if anyone were to read it. If it requires too much thinking, then it should be simplified.

The ternary operator is a classic example of this. Designed to be a 'shortcut' to an if statement, it gets abused by some coders to write less code.

## KISS- Keep it Simple, Stupid

The classic KISS principle (keep it simple, stupid) is no less relevant in coding than it is anywhere else. Keeping your code simple and eliminating unnecessary complexity has many benefits:

- ➊ less chance of bugs
- ➋ smaller file size
- ➌ easier to debug, modify, write and read!

Don't underestimate the value in code readability. Another thing you can do to make your code more readable is to add comments.

## SOLID

It is an acronym for 5 important design principles when doing OOP (Object Oriented Programming).

SRP- Single Responsibility Principle

OCP- Open/Closed Principle

LSP- Liskov's Substitution Principle

ISP – Interface Segregation Principle

DIP- Dependency Inversion Principle

The SOLID principles were introduced by Robert C. Martin (Uncle Bob), in his 2000 paper Design Principles and Design Patterns. The actual SOLID acronym was, however, identified later by Michael Feathers. The intention of these principles is to make software designs more understandable, easier to maintain and easier to extend. As a software engineer, these 5 principles are essential to know!

**ARBIN SHAMA  
2015-2018**

# Impacts of 5G

We all have known 1G, 2G and 3G... If you are 90's kid or 20's kid you know it better. Remember the days we used to sit with our basic phones to download that one video or a song that was merely 2 MB and by the time it was 99% it used to pop up "Download Failed!!"? Yes, that was me, frustrated as much as you would have been!

Well 5G in layman's terms, is a better version of 4G, which simply means now you can connect much faster than before!

But now you are not alone in this network. The machines that just followed our commands earlier are getting smarter day by day. Yes, now they all can be connected too. Which means AI can be at its best. With great power come's great responsibility. So, read ahead to know what that means.

## Impacts Of 5G

Impacts need not be negative or positive alone.

**Here's some statistics to let you how is world seeing the upcoming of 5G.**

1. According to World Economic Forum's estimate, the economic impact by the end of year 2035 is going to be around \$12 Trillion with the expanding 5G network.
2. How it is going to impact the speed of Internet? That is something even I am eager to know You will see a whopping 100X speed compared to 3G and 4G!
3. Surgeries can now be performed remotely. Which simply means a lot of lives are going to be saved. Robot surgeries accompanied by high quality video streaming is going to be a major advancement in the field of medicine.
4. Not everything is greener on the other side... A lot of radiations from all the connected devices will cause a significant increase in the temperature.
5. What is scarier is the light not shed on the research on impacts of 5G on health. Many types of cancers in living beings are connected to the electromagnetic radiations caused by devices like mobile phones.

## Final thought

Let's be honest, there's always a way to figure out how things will work out in our favor. Let's wait and see what it is going to bring us to. A world with prosperity or a world with more disasters than ever! Wait... It's not the responsibility of a single person or an organization. It's everybody's responsibility to make this world a better place to live than to find life on other!



**SHRUTHI**

2016 - 2019

# Digital House

In the early days designing the model for a house was just through the drawing its sketch or producing the blueprint of it and then they used to build it for real. After some specific period of time they were building the models using a few craft materials so that it looks effective when compared to the sketches. Then, they were commonly building the electronic versions of buildings and architectural cabinetry like bedrooms, kitchens are produced using CAD drawings which used numerically controlled tools.

Then came **Mr. Bell Travers Willson** who took it to another level with the demonstration projects which were more than a model that are digital houses. They were produced using 3D computer model which contains all construction elements in detail including every wall is pre-defined before the construction.

The information will be further transferred to the CNC Router (Computer Numerical Control) which rapidly cuts out the elements into timbers. These are assembled into lightweight hollow cassettes which acts like bricks that will be filled with newspapers to achieve insularity.

The technology behind the digital house allows every piece cut to be different than the other so, that the house will be customized according to the customer requirement which enables the flexibility in designs and representation.

Digital house utilizes the advantages of high-technology products such as speed and quality. It is the outcome of the two and half years of research and development by Mr. Bell Travers Willson, who worked with the aim of engaging with house builders to develop to enhance the new way of house construction using digital technology.

SOWMYA K

6<sup>TH</sup> SEM



# How does a *GPS* work?



**S**ince the days of yore, humans have depended on the heavens to find their way. The constellations in the night sky helped the sailors figure out where they were and where they were going.

In modern times, a simple hand-held GPS (short for Global Positioning System) is enough to know exactly where we are anywhere in the world. But, quite similar to the stars, we still need objects high in the sky to find a way to get to the places we want to go to. These objects are nothing, but the satellites. Over 30 navigation satellites are orbiting Earth. These satellites are the source of our location; they are the reason we can know exactly where we are.

As the name itself suggests, a GPS is a “system”. So, how does this Global Positioning “System” work? Satellites, Ground Stations and receivers are what constitute this Global Positioning System. We know where our “stars”—the satellites, are supposed to be in the sky, at any given time.

To ascertain the fact that they are exactly where we think they are, the ground stations use RADAR. The receiver is constantly waiting and listening for a signal from these satellites, and figures out how far they are from some of them. Once it receives information from four or more of these satellites and calculates its distance, it can then precisely tell where you are!

So, with signals from objects miles up in the sky, your location can be arrived at with incredible precision (within a few meters of your exact location).

To sum up the above process in six easy steps, here is how a GPS works:

1. The method on which the GPS is based is termed as “triangulation” or “trilateration”.
2. The receiver needs to get a message from three (four recommended) satellites.
3. In order to “triangulate”, for each of the signals received, the receiver measures its distance from the satellite which sent the signal, based on the time it took for the signal to arrive.  
$$\text{Distance} = \text{Speed (of light)} \times \text{Time (for the signal to arrive)}$$
4. With the help of atomic clocks onboard each satellite, the travel time is measured accurately.
5. Another very critical piece of information that is held inside the GPS receiver itself is the exact location of the satellite in space at any given time.
6. Finally, based on the exact spatial location of the satellites at that instant, using some very clever mathematics, it can work out where it is on the ground.

So, that's how a GPS tells you exactly where you are, and can tell you the best route to get to wherever you want to go. Cool, isn't it?

# Cellphones

without a

## Battery



How to wonder if we can get the cellphone without a battery??!!because nowadays cellphone users just tired of keeping their cellphones for charging after it got to use it from many years and also afraid of the burst of some companies battery and these issues are quite common in the smart generation. So, these issues could solve by the below invention.

Here there is some glimpse of a cellphone without a battery innovation.

### Introduction

The cellphone without a battery is an impossible thing that one could ever think but the University of Washington researchers have done the cellphone which is going to move beyond chargers, cords, and dying phones. In regular phone requires some microwatts power instead this prototype depends on either ambient radio signals or light energy.

### Demonstration of this prototype

This prototype has been demonstrated on Skype calls without the phone's actual battery. This is made commercially and off-the shell components and it does by reception and transmission of speech/audio signal and communication with a base station.

The Researcher team had done this experiment using off-the-shelf components on PCB(printed circuit board) and that can perform cellphone's fundamental tasks like taking user input data via buttons and transmits speech as output. They were able to do incoming and outgoing calls on Skype with the cellphone battery-free.

### The process of working

Modern innovation has been initiated and invented by the researchers at the University of Washington, and they revealed some elementary process of how a battery-free cellphone works.

It involves converting the analog signals(continuous signals) to digital data(discrete signals) which phone can understand. Although this absorbs more energy and it's been unfeasible to construct a phone that can only work on ambient power sources. This takes the advantage of a tiny phone's speaker and that occurs while a person is talking to another person or listening to the speakers. An antenna that is connected to these constituents that convert the altitude of analog radio signals discharged by the base station.

This process usually takes input in the form of speech and encodes in radio signals which are reflected by the speech in such a way that uses less power, and this speech pattern is recognized by the device's speaker/microphone. In this prototype, the user has to switch between only two buttons like "transmitting" and "listening" manner. The research team has designed a custom base station that can receive and transmit the radio signals. Currently, due to technology evolution Wi-Fi routers are now mostly used to make calls.

The cellphone without a battery uses a speech recognition pattern to absorb less power but does still acquire a small amount of energy to perform fundamental operations required for a cellphone to work. The power budget has been estimated as 3.5 microwatts. The team demonstrated this small amount of energy which is required for a cellphone from 2 different sources. The power collected from ambient radio signals transmitted by the base station and using this amount energy the cellphone can operate up to 31 feet away.

Another way of collecting power from ambient light with a minute solar cell-hardly the size is of rice grain. That device was able to communicate with a base station even though it was 50 feet away.

Many devices rely on ambient energy sources but it works for some moment and then sleeps off for a minute meanwhile they collect the power to perform different operations. On the other hand, cellphone needs to operate continuously as long as the conversation lasts. The Research team has further plans like the operating range of the cellphone and encrypting techniques, stream video, display screen, and many features.

*"Innovation leads to Progress"*

RAKSHITHA S

2<sup>ND</sup> SEM



Most people are aware of the old phrase, "**You Get What You Pay For**". However most are not aware that this also applies to the world of portable power solution. This unpredictable world that we live in, is more prone to unpredictable natural calamities, well thanks to the people that they are keeping themselves ready in order to keep themselves safe during these tough times. Building or purchasing an emergency kit can get quite expensive, While finding lists of what to include in your kit can be fairly easy. Things like food and water should be a no brainer, but how will you power your lights, radios, and communication devices in the event of an emergency?

Urban areas might not be affected by these natural calamities to a greater extent, but same is not the situation for people staying in rural areas. Many people in rural areas are using gas or diesel powered generators.

This is fine if you have enough fuel stockpiled to last the duration, but what happens when the fuel runs out? One of the most popular portable power solutions available that would be compatible with your emergency kit is definitely waterlily. What is waterlily?

**W**aterLily is a green energy turbine that allows users to harvest clean, sustainable energy from their natural surroundings with zero impact on the local environment. On average, WaterLily users harvest enough energy to displace 1 million AA batteries every 4 days, and 91 million AA batteries each year!!!. WaterLily can save lives of millions by empowering people to generate their own electricity and have continuous light and charged devices which will improve their lives.



WaterLily works best as a water turbine (hence the name!) it can also harvest energy from wind, and from human power via a hand crank accessory. This means that no matter what situation you may find yourself in, you will be able to produce enough power to charge your phone or radio. The USB version will allow you to connect to any device that has a USB connection and the 12V turbine gives you endless options for charging your batteries and devices.

Just in case If you are heading out on a multiday or multiweek expedition and will be using electronic gear, charge times may be more crucial; You don't want to be waiting on your battery to charge before breaking camp and starting another day of adventure(or, maybe you're like us and just obsessed with efficiency!) . Whatever the case may be, if charge rates are important to you, be sure to understand the specs on the battery you plan to pair with your WaterLily.



Technology has become an important part of our interaction with the natural world, technology is important to the modern outdoor enthusiast whether it is for work, recreation, or off-grid living.

What if we make use of technology for personal use i.e allowing us to harvest energy from rivers, streams and wind. It easily charges phones, GPS devices, cameras, and more, by generating power from flowing water as well as the wind. WaterLily comes in two versions, for charging USB devices, and for charging 12V devices.

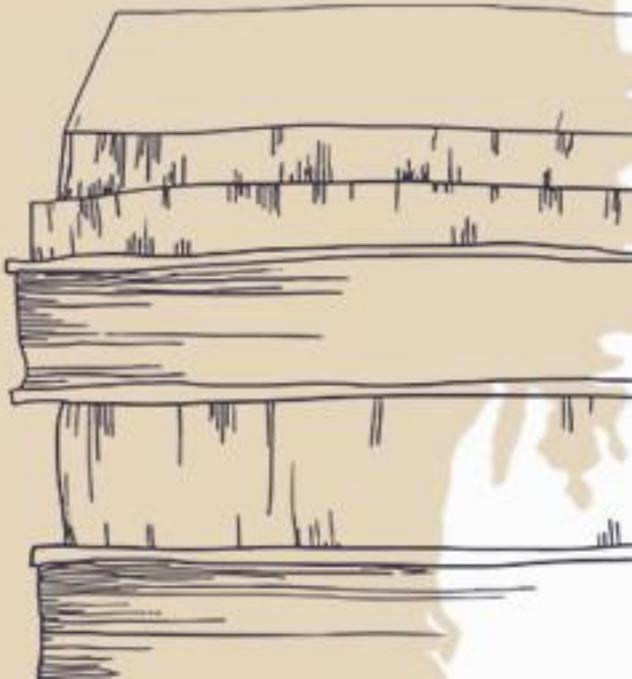
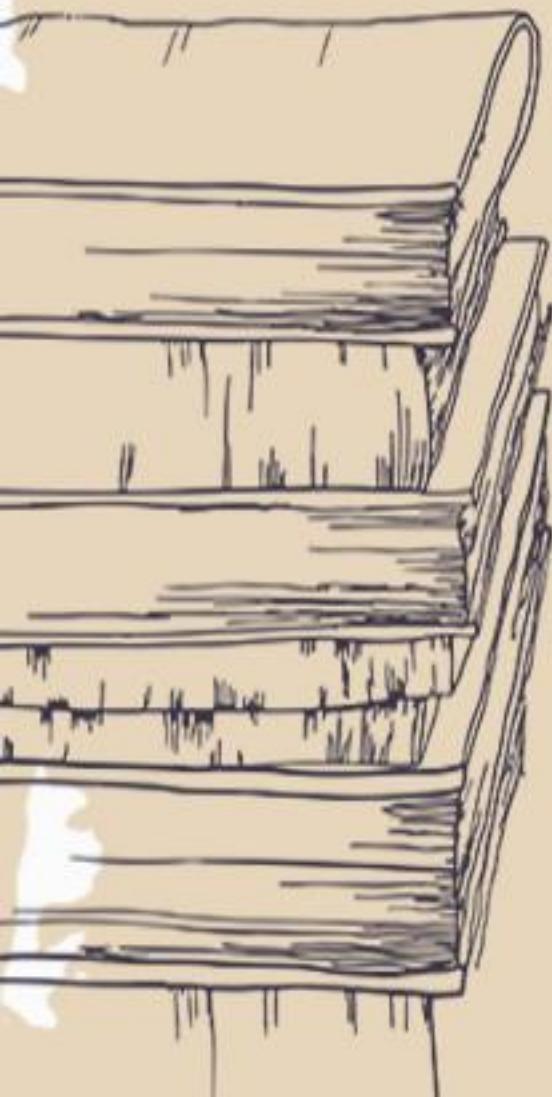
In 2017, WaterLily was born. After a year of development and manufacturing, the first units were shipped to customers in the spring of 2018. WaterLily has been sold to over 5000 customers in more than 50 countries worldwide! The response has overwhelmingly positive with a 4.7/5 customer rating and great reviews from testers and influencers around the world[Seaformatics Systems].

On final thoughts, If you live near a stream or want a variety of options then you may consider a WaterLily turbine. Whatever you decide upon, don't wait for a disaster to happen before using it. Take it out and test it. Learn the proper setup techniques and get to know its benefits and limitations so that you will know what to do should an emergency arise.

**KEERTHANA BHUSHAN S N**  
**2ND SEM**



# Non Technical Articles



# Impact on Lifestyle during Covid 19

In March 2020, the COVID-19 disease started spreading across all over the world. Over the period of time metropolitan cities in India like Delhi, Mumbai, Chennai and Bangalore started facing emergencies and a rapid increase of COVID-19 patients and the entire world is working tirelessly in finding a medicine.

"Did COVID-19 change the Lifestyle of the people?"

Yes, COVID-19 brought a lot of changes in Lifestyle. There is a saying that goes like this "Keep your surrounding clean so that you will be healthy."

These wordings are really true because Government is making sure to sanitize the area so that virus should not spread. But the other way round if we think we are trying to keep our surroundings clean. Sometimes we are lazy to wash our hands before having lunch but after COVID crises each and every time we are washing hands before having our lunch. Whenever I wash my hands, I always remember the lifebuoy advertisement.

Herb water decoction is one of the best home remedies which people are implementing during quarantine time. People used to have junk food outside but due to COVID crises people started understanding junk food is unhealthy though junk food is unhealthy sometimes we feel to have it so most of our mothers started preparing the food in a healthy place with limited fat.

I would like to conclude my article that COVID-19 has really made an impact on lifestyle. We have learnt lot of lessons in a positive way it has also thought "Simplicity is a best."

KEERTHI M S

4<sup>TH</sup> SEM



# Fitness

A person who is fit is capable of living their lives to its fullest extent. Physical and mental fitness play very crucial roles in one's life. It's considered that individuals who are both physically and mentally fit are less at risk of medical conditions likewise. While one can practice meditation to induce mentally fit, yoga, aerobics, and gym can help someone to urge fit physically. As a professional Fitness Coach, I like to introduce you guys to the fundamentals of good condition.

Types of training:

1. Cross Fitness:

CrossFit is a training program that helps us to builds strength and conditioning through extremely varied and challenging workouts and also gains stamina. ay by day the workout will test a distinct a part of your functional strength or conditioning, not specializing in one particular thing, but rather with the goal of building a body that's capable of practically doing anything and everything.

There are few disadvantages in cross fitness, doing excess training under cross fit might not allow you to lift heavier weights just in case if you want to try resistance training simultaneously so as to urge muscular or gain muscles to urge a bulk body!

2. Cardio Training:

Cardio training means you're doing a rhythmic activity that increases your rate into your target rate zone, the zone where you'll burn the foremost fat and calories. To count as cardio exercise minutes, you need to do the activity for a minimum of 10 minutes. It includes various exercise like walking, running, cycling, jumping rope, rowing, swimming, etc.

3. Resistance Training:

Resistance training may be an educational program that helps you to make your muscles, progress your body within the way you would like to with a proper diet, one can get lean or get bulk or lean-bulk etc. During this training, you either build one or two muscle per day a number of them value more highly to figure out on single muscle and a few options to determine on double it's left to the individual to decide on the training module and to coach one muscle or double, so every day goes with training a selected muscle followed by the remainder of them for the entire week.

Training goes on up to six days every week which involves an increase in 6 differing kinds of muscles Chest, Back, Shoulders, Biceps, Triceps, Legs and yet one more day in an exceedingly week is left as a day of rest. you'll be able to also consider it as a cheat day where you'll be able to have a cheat meal finally after one week of strict boring diet. increase your muscles goes to require lots of your time confirm you don't hand over since everything is processing inside your body! So, wait enough and stay motivated! LET THE GAINS BEGIN!!!

HARSHITH T  
4<sup>TH</sup> SEM



# Women's Freedom

**“YATRA NARYASTU PUJYANTE RAMANTE TATRA DEVATA,  
YATRAITAASTU NA PUJYANTE SARVAASTATRA FALAAH KRIYAAH”**

This is a famous sloka taken from Manusmruthi which says where women are honored, divinity blossoms there, and where ever women are dishonored, all-action regardless of how noble it should be remains unfruitful.

This is a nation, a land where we are always worshipping the female. We call the earth Mother Earth, the state itself is conceptualized as feminine – she is Bharat Mata. there's not one village in this country where the female isn't worshipped as Devi or Amman or in some form. At the identical time, we are a nation, which is commencing to treat women as second-class citizens in some ways – with infanticide, feticide and everyone this stuff, almost as an unwanted gender. this could not be perceived as something against women. The essential problem is that nearly any difference between people is, after a time, converted into discriminatory process – every distinction is formed into a discrimination. we've discriminated against one another within the name of caste, creed, race, religion, but discrimination within the sort of gender is that the worst kind because you can't fix it.

According to the National Crime records Bureau: 26 crimes against women are reported every hour and each third woman in India suffer force. On a median 926 assaults happen on woman each day in India.

## **Women empowerment:**

Womens empowerment plays a vital role in the development of the country. Empowerment of ladies particularly in rural areas is that a necessity today. Basic rights like education, nutrition, and health are like luxuries for countless girls across the world even today. There are plenty of women within the rural areas who drop out of the varsity and find yourself within the employment or doing household chores. Female foeticide, force, early marriages, gender-based discrimination, discrimination at workplace are a number of the challenge's women face even today. We must make sure that each and each girl gets her right to education, proper nutrition, and physiological condition facilities. There should be the proper law of ladies. Women should get the liberty to require their own decisions. Empowering the ladies is one of the best things we will do to push for a healthier and more prosperous world.

## **Women's rights by Hillary Clinton:**

Human rights are women's rights, and women's rights are human rights. allow us to not forget that among those rights are proper to talk freely-and the correct to be heard.

In **conclusion**, women are often powerful actors for peace, security, and prosperity. once they participate in peace processes and other formal decision-making processes, they'll play a very important role in initiating and provoking progress on human rights, justice, national reconciliation, and economic revitalization. they will also build coalitions across ethnic and sectarian lines and speak up for marginalized and minority groups. Investing in women's leadership is therefore smart security additionally as smart development.

**ANKITHA H.M  
4<sup>TH</sup> SEM**



# Strongest Women Ever Seen

Protected me as a shield in the life battle

Was overwhelmed with happiness even though in pain

No, she is not a soldier.

Corrects me whenever I do mistakes, kisses often with love and care

No, she isn't either a best friend or girlfriend.

Stands with me to face all difficulties and encourages me to be bold.

She is not even my life partner.

She is the strongest lady I have ever seen,  
who hides her emotions just to make the whole family happy

She is called Mother, no one can beat her

And I am proud to say that...

Yes !! she is my mom.

K P SWATHI

2<sup>ND</sup> SEM



# Self Confidence

## First Step to Success



This world, in which we live, is a very competitive one. It is popularly described as a rat race, full of competent people and the fittest of them survives. Success is not a cakewalk. One has to face lots of hardships and obstacles to taste success. The most important aspect of achieving success is self-confidence. However, people are ambitious but not confident enough to go for it. In fact, most of them don't know how to go about it or are terrified to take risks in their lives. Self-confidence is not something which can be achieved in a day or two. Let us understand that we are not born with it. It's the situation we face, motivation from others and self-motivation that make us truly confident. Hence those of us who feel that we lack confidence, have no reason to be upset. There are 3 kinds of people. One, who dreams big but do not have any idea how to pursue it. The second, who are overconfident and end up ruining their opportunities, Lastly the ones who are confident and have talent. This segment knows what they want and how to move further. For attaining a goal, it is important to strive for it and work on the strategies relentlessly. It is necessary to make proper planning and follow up. We will come across ups and downs but should not lose focus and give up. Work hard throughout and be focused until the desired result is achieved. Now, the question arises as to what are the plans/strategies. At the outset, one has to be disciplined. It is not easy as it sounds, but, requires a lot of commitment. However, it is not impossible. Take good care of physique as it is very important when it comes to self-confidence. Healthy food habits and proper sleep are very much essential. Since hard work is involved, it is imperative that we do not lose hope or be disheartened. Knowing who you are and what your strengths are, is an area that requires your utmost focus. However, it depends on how we perceive it. Everybody has flaws, but we have to shine through them. Don't lose hope, be patient, take care of oneself and work hard. The puzzle will fall in place.



# Dil Ki Baat

Today I made one of the most beautiful soul upset  
And I got to know why  
Because of that she is mad  
And I almost made her cry

I tried to calm her down  
But she wouldn't listen to my talk  
Only once if destiny gave me a chance  
I would love to take her on a long walk

The innocence that your eyes have  
Makes me wanna know you more  
But because of my stupid mistakes  
All I do is make your sorrow roar

U are the blessing that God has granted  
And I make sure you stay by my side  
But life throws so unexpected situation  
That it goes it on a very different ride

Mistakes can happen but try to rectify the error  
And before you argue, try looking yourself  
in the mirror.  
Mirrors don't lie even if you fake  
And apologise deep heartedly as long as it takes

Thoughts of you surround me  
And it has imprinted an invisible mark  
The love you give Defines me  
And it no longer makes my life dark

As Aamir is epitome of mistakes  
Teach him what that mistakes do  
I promise you I will work hard on it  
Such that it will make your heart move

The smile which your face produce  
I want to be its reason  
And when someone else try to come  
close to you  
I will declare that as a treason

Smile is a beautiful gift that your face  
produces  
Seeing which my stress reduces  
So next time when ur upset, remember  
this  
You are missing that moment's bliss  
So, Stay happy always

-AAMIR PASHA  
4<sup>TH</sup> SEM

# Preparation for Placements

Being successful in a job interview there are two key things, i.e., being well-prepared and foreseeing the interview environment. A job interview is a personality trait that covers several facets of your life, such as educational background, professional accomplishments, technical prowess, and soft skills. However, despite spite of having all the equitable aspects and qualifications, many candidates are not able to crack job interviews due to lack of preparation. Preparing for a job interview involves research on the company or an organization, understanding the job profile, and should have a greater level of knowledge on how you fit in with the company and the role.

Let's understand each of these three aspects in detail:

## 1. Prepare Yourself

When you start getting prepared for an interview it is better to re-evaluate and understand yourself. This will help you to be prepared and confident for any queries that may crop up during the interview process.

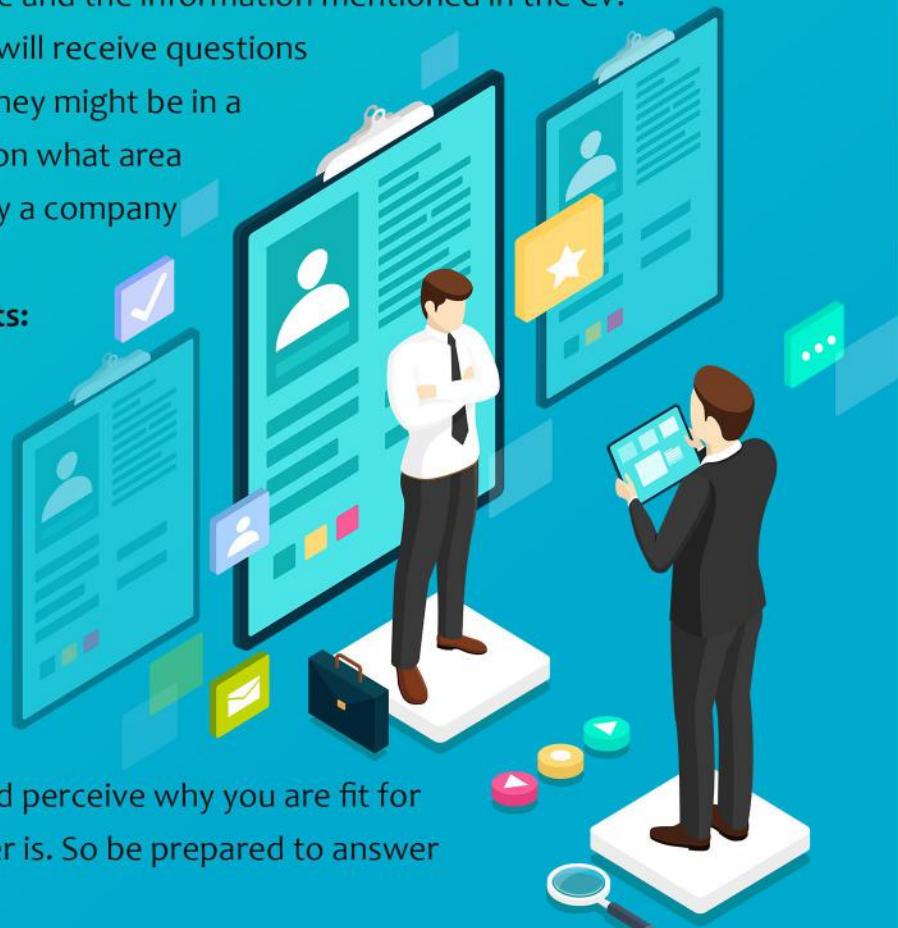
- **Reviewing your resume (CV):** Preparing a decent resume highlighting all your skills, internships, projects and other academic and extra-curricular details. Make sure that you don't add anything in your CV which you cannot justify to the interviewer. Before the Interview starts try to go through your resume or CV and understand it in detail. You should predict and form questions that interviewers might ask you about your resume and the information mentioned in the CV.

- **Strength and Weakness Analysis:** You will receive questions about your strengths and weaknesses. They might be in a different format or style, therefore, rely on what area unit you are sensible and think about why a company should hire you.

- **Academic & Professional Achievements:**

You will be asked questions about your academic and skilled achievements. So be prepared for them.

- **Core preparation:** According to the job profile prepare yourself (choose one Object Oriented Programming language and follow a strict code-acceleration routine consistently).



- **Job Suitability:** Interviewers will try and perceive why you are fit for their company and the job profile on offer is. So be prepared to answer the queries on those lines in addition.

## 2. Know the Company

Knowing a touch concerning about the company that you are going to join after a job interview and also a protracted method in helping you get the job. Here's how you can get all the important details or information about the company for your coming job interview:

- **Go to the company website:** This is the easiest and best way to learn about the company. Try to understand who is who in the company, the product and services they provide, and the position of their market.
- **Google the Company:** This may assist you perceive what others are saying about the company, potential pitfalls and its reputation. This will assist you to be prepared for queries to ask about the company.
- **Evaluate Financial Health:** If the company is a public company going through its financial / shareholder report. This report offers information about the wealth regarding the company and strategy, financial position, market position, and industry outlook.
- **Peer Review:** Talk to your friends, colleagues, and family who may have worked in the company or work in the industry. This will provide you a core information about the company and the industry.
- **Research the industry:** Hand in hand with company research should go research about the whole industry. The interviewer may ask many questions or use terms related to the industry. You would want to be prepared.



### 3. Understanding the Job Profile

The last step in the job interview preparation understands the job profile and how it fits with you:

- **Understand the Job Profile:** Try to understand the job profile and what skills are required to get into the job. The evaluation of the skills required should be technical skills, education, and experience, managerial and personal traits.
- **Resume Check:** Look at your CV or resume and identify all the areas where you have got a decent match with the job profile. Check the areas where you have been exceeded the necessities or requirements as this may be a positive or a negative depending on the role.
- **Know the Differences:** Perceive the area unit where there are differences between the job profile and your background. Work on how to reduce the differentials. Focus on projects, extra-curricular activities, social work, community activities, and training that will help you decrease this gap.
- **Evaluate your Core Skills:** The ultimate nail in the coffin when it comes to cracking a job interview depends upon your deep skills which are primary for the job you are trying to get. Consider core skills from an interviewer's perspective and prepare to present your skills well. Unless you give attention to your skills and showcase your compatibility with the job profile, you will not get the job.

Preparing for your job interview in these 3-phased manners can assist you to cover all the three basic forms of queries you would face on the D-day and prepare the answers accordingly and lastly

**“ BELIEVE IN YOURSELF You WILL ACHIEVE IT ”**

RAKESH CHAHAR

2016 - 2019



# Endeared

While we foresee a covid free dawn,  
All the sufferings would be gone!  
Let's wait for a breath of fresh air,  
And overcome this fear!

Turn on your gears,  
Put a full stop to those hidden tears!  
Spend time with your near and dear ones,  
They love you tons!

Bring on your Lockdown's got talent,  
Make life extravagant!  
Everyone's fighting a battle,  
Stay kind and gentle!

Offer a helping hand,  
It works like a magic wand!  
Make a difference in some people's lives,  
And into your life happiness arrives!

Stay safe and take care,  
We are always there!  
You for me,  
We for you!

SUSHMITHA.BB  
2016 - 2019



# Silent 2020

An invisible and tiny one shook the whole world,  
Whole world of pride was shattered by a tiny one  
Days and nights were the same, time passed at a slow phase

Tiny one taught a good lesson to the world;  
nothing is a superior as mother nature.

Humanity stood above all;  
value of life doubled

Lifestyle changed, real people were known  
Weird silence taught better lessons than wide noises.

MEGHANA S

2016 - 2019





# You are Alive

If you're carrying your restlessness in your heart,  
You are alive.

If you're carrying the spirit of your dreams in your eyes,  
You are alive.

Like a gust of wind learn to live free,  
Learn to flow like the waves that make a sea.

Let your arms be wide open to every moment you meet  
May every moment gift you a new sight to greet

If you're carrying wonder in your eyes,  
You are alive.

If you're carrying your restlessness in your heart  
You are alive.

# Atmanirbhar BHARATH or CHINA

**A**tmanirbhar Bharat is a big and complex idea to make India a self-reliant and sustained country. The two main methods which we can follow are:-

- **Vocal for Local**
- **Boycott China products**

Currently, our dependency on Chinese products is high. 8 out of 10 products are Chinese. It is because of our trade deficit with China that is Total Imports – Total Exports. Our total imports are 5 times more than exports. This is happening because China exactly identifies the market demand and uses its infrastructure, skilled labor, and manufactures it at a low cost, and dumps it in India and to rest of the world. Thus, the price of that product goes so down, as the local companies are unable to compete with it.

So, what we can do is, we can make our markets self-sufficient ,so we start using lesser Chinese products than now. For example India is 22% global drug producer but more than 70% of the raw materials come from China. China took advantage of this in the Corona virus crisis and increased the price. This has to stop. So India wants to set up a bulk drug park so the raw materials can be made locally. Now let's talk about electronics, the reason we are behind in the electronics race is the demand is high, but we lack skilled labor, investment and research. Mobiles are not “Made in India” but they are just “Assembled in India”. But India wants to change that. India wants the foreign companies to come over here invest in infrastructure, train people so that we are ready for the future.

## **As being the citizen of India what can we do?**

India is paying 2548 crores to China for toys ,6248 crores for furniture and 2777 crores for footwear we use. But we do have local authorities available here , we just have to look for them .So far we would only see the price tag while shopping , but from now on we should also see which brand it is ?and where is it actually manufactured?

Our method suggestion is:-

- 1.If it's a Chinese brand and made in China – Red Signal. Wait for it and think, ask yourselves whether you actually need it.
2. If it's an Indian Brand made in China or a Chinese brand made in India –Yellow Signal. Then stop for a second and search for alternatives. Of course, if there are none then go ahead and buy it.
3. If Indian brand made in India –Green Signal.I think the actual meaning of Vocal for Local is to spread this smile and encouragement in India to everyone because together we can make a difference!

# An Era of Lin Dan



I think many of you didn't know the name "Lin Dan". Am writing this article because am a badminton lover and also a big fan of him. "Lin Dan" the name itself makes the players nervous when their term comes to play against him. He is a Chinese left arm singles badminton player.

The 'Goat' of badminton is born on 14th October 1983 in Shanghang county, Longyan, Fujian, China. At a young age, his parents told him to learn Piano and to become a Pianist. However, he chose to play badminton. Having started his training at the age of 5, he was selected by the People's Liberation Army Championships at the age of 12, and was selected for Chinese National Badminton team in 2001, at the age of 18.

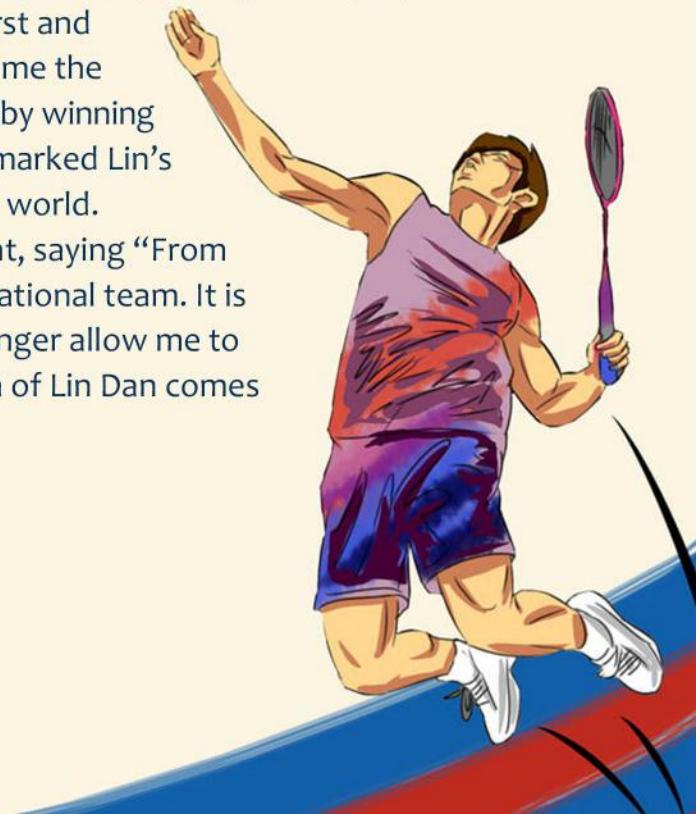
2001, the year Lin started his professional career. In his first final, at the Asian Badminton Championships, he was defeated by Xia Xuanze. In 2002, Lin won his first title at the Korea open. Lin had a good start from 2004, he was dubbed "Super Dan" by an opponent after winning the All England Open final, and the nickname is very famous since then, and also earning the BWF's(Badminton World Federation) number one world ranking for the first time in his career. Lin suffered later in 2004, when he was defeated in the quarterfinals of Malaysia Open, and he was supposed to have a leg injury before Olympic game. Lin was defeated in his first Olympic game. But he did not give up. He won the gold medal in Olympic Games 2008 and 2012 by defeating Lee Chong Wie, in both the finals. The match between Lin Dan and Lee Chong Wie of Malaysia was widely considered the greatest rivalry the world has ever witnessed in the history of badminton, of their 40 meetings, Lin won the head to head by 28-12.

He won the first World Championship title in the year 2006 and overall won 5 titles in his career and also won gold in Asian games 5 times, Asian Championships 4 times, East Asian game 1 time, Sudirman cup 5 times, World cup 2 times and overall 666 career wins. Widely regarded as the greatest badminton player of all time, by the age of 28 Lin had completed the "Super Grand Slam" having won all the nine major titles in the badminton world: Olympic Games, World Championships, World Cup, Thomas Cup, Sudirman Cup, Super Series Masters Final, All England Open, Asian Games, and Asian Championships, becoming the first and only player in the world to achieve this feat. He also became the first men's singles player to retain the Olympic gold medal by winning in 2008 and in 2012, winning the Malaysian Open in 2017 marked Lin's success in having won every major title in the badminton world.

On July 4, 2020, Lin Dan announced his retirement, saying "From 2000-2020, after 20 years, I have to say goodbye to the national team. It is very difficult to speak it out. At 37, pain and injuries no longer allow me to fight for my country." So with his 666 career wins, an era of Lin Dan comes to an end.

**Happy retirement Legend.**

**ABHAY M BHIDE  
2<sup>ND</sup> SEM**



# ರಾಷ್ಟ್ರೀಯವಾಂಧಣದಲ್ಲಿ ಯುವಜನರ ಪಾತ್ರ

ಜಗತ್ತಿನಾದ್ಯಂತ ಸುಮಾರು ೧.೮ ಬಿಲಿಯನ್‌ಷ್ಟು ಯುವಜನರಿದ್ದು ಭಾರತದಲ್ಲಿ ಸುಮಾರು ೩೫೬ ಮಿಲಿಯನ್ ನಷ್ಟು ಯುವಜನರಿದ್ದಾರೆ. ಒಟ್ಟೊರೆಯಾಗಿ ಭಾರತದಲ್ಲಿ ೨೫% ರಷ್ಟು ೧೦ ರಿಂದ ೨೫ ವಯಸ್ಸಿನ ಶೇಕಡಾ ೪೫ ಕ್ಕೂ ಹೆಚ್ಚಿನ ೩೫ ವರ್ಷದೊಳಗಿನ ಯುವಜನ ನಮ್ಮ ಭವ್ಯ ಭಾರತದ ಮುದಿಲೋಳಗಿದ್ದಾರೆ. ಈ ಹಿನ್ನಲೆಯಲ್ಲಿ ಜಗತ್ತಿನ ಅತಿಹೆಚ್ಚು ಯುವಜನ ಹೊಂದಿರುವ ದೇಶವೆಂಬ ಕ್ರಿತಿಕೆಗೆ ನಮ್ಮ ದೇಶ ಭಾಜನವಾಗಿದೆ. ಈ ಕಾರಣವಾಗಿ ಭಾರತವನ್ನು "ಯುವಭಾರತ" ಎಂದು ಕರೆಯುವದಾದರೆ ಅತಿಶಯೋಕ್ತಿ ಎನಿಸಲಾರದು.

ಭವ್ಯ ಭಾರತದ ಕನಸನ್ನು ನನ್ನ ಕಣ್ಣಗಳಲ್ಲಿ ತುಂಬಿಕೊಂಡಂತಹ ಶಕ್ತಿ, ಯುಕ್ತಿ, ಜಾಖನ್ ಭಂಡಾರವನೀಸಿರು ವಂತಹ ಯುವ ಜನತೆಯಿಂದಲೇ ಭಾಗಶಃ ತುಂಬಿರುವ ನಮ್ಮ ದೇಶ ಇನ್ನೂ ಏಕೆ ಮುಂದುವರಿಯುತ್ತಿರುವ ದೇಶವಾಗಿಯೇ ಉಳಿದುಕೊಂಡಿದೆ? ಜಾಗತಿಕ ಮಟ್ಟದಲ್ಲಿ ಇನ್ನೂ ಏಕೆ ತನ್ನ ಸಂಪೂರ್ಣ ಅಸ್ವಿತ್ವ ಹುಡುಕಾಟದಲ್ಲಿದೆ? ಎಂಬ ಪ್ರಶ್ನೆಗಳು ಉದ್ದೇಶಿಸದೆ ಇರಲಾರವು.

ಹೌದು ಜಗತ್ತಿನ ಬಹುತೇಕ ಪ್ರಶ್ನೆಗಳನ್ನು, ತೊಡಕುಗಳನ್ನು ನಿವಾರಿಸುವ ಶಕ್ತಿಯಿರುವ ಯುವಜನತೆಯೇ ತುಂಬಿರುವ ಬಹುತೇಕ ದೇಶಗಳು ಇನ್ನೂ ಕೂಡ ಅಂದಕಾರ ರೂಪದಲ್ಲಿರುವುದನ್ನು ಕಂಡರೆ ಆಶ್ಚರ್ಯವಾಗಿದೇ ಇರುತ್ತದೆ ಈ ತೊಡಕಿನ ಸಂಪೂರ್ಣ ಜವಾಬ್ದಾರಿಯನ್ನು ಅಲ್ಲಿಯ ಸರ್ಕಾರಗಳೇ ಹೊರುವದು ಅನಿವಾರ್ಯವಾಗಿದೆ. ಏಕೆಂದರೆ ಯುವ ಜನಶಕ್ತಿ ದೇಶದಲ್ಲಿದ್ದ ಮಾತ್ರಕ್ಕೆ ಆ ದೇಶ ಮುಂದುವರೆಯುತ್ತದೆ ಎಂದು ಅಧ್ಯವಲ್ಲ. ಆ ಯುವ ಶಕ್ತಿಯನ್ನು ಬೆಳೆವಣಿಗೆ ಅಸ್ತುವನ್ನಾಗಿ ಹಾಗೂ ಸಂಪನ್ಮೂಲಗಳನ್ನಾಗಿ ಬಳಸಿಕೊಂಡಾಗ ಮಾತ್ರ ಆ ದೇಶ ಮುಂದುವರೆಯುವುದು ಸಾಧ್ಯವಾಗುತ್ತದೆ.

ವಿಶ್ವದ ಬಹುತೇಕ ಮುಂದುವರಿದ ರಾಷ್ಟ್ರಗಳು ಎಂದು ಕರೆಸಿ ಕೊಳ್ಳುವಂತಹ ಅಮೇರಿಕ, ಬಿಟನ್, ಆಸ್ಟ್ರೇಲಿಯಾ ಮುಂತಾದ ದೇಶಗಳಲ್ಲಿ ದುಡಿಯುತ್ತಿರುವ ಇಂಜಿನಿಯರುಗಳು, ತಂತ್ರಜ್ಞರು, ಸಂಶೋಧಕರು, ವಿಜ್ಞಾನಿಗಳು ಹಾಗೂ ಹಲವು ಕಂಪನಿಗಳು ಉನ್ನತ ಹುದ್ದೆಗಳಲ್ಲಿ ಕಾರ್ಯ ನಿರ್ವಹಿಸುತ್ತಿರುವವರು ನಮ್ಮ ಭಾರತದಂತಹ ಮುಂದುವರೆಯುತ್ತಿರುವ ಆಧಿಕಾರ ಮುಂದುವರೆಯುವ ರಾಷ್ಟ್ರಗಳ ಮೇಧಾವಿಗಳು ನಮ್ಮ ದೇಶದ ಯುವಜನ ಸಂಪನ್ಮೂಲಗಳನ್ನು ನಿರ್ಮಿಸುವ ಮೂಲಕ

**ಶಕ್ತಿಶಾಲಿಗಳಾಗಿ, ಶ್ರದ್ಧಾವಂತರಾಗಿ. ಆಗ ಎಲ್ಲವೂ  
ನಿಚ್ಚಿತವಾಗಿ ಸಾಧಿಸಲುಡುತ್ತದೆ.**

- ಇಂದ್ರಾಜಿತ್ ಬಿಂದು ಕಾರ್ಯಾಲಯ



ತಮ್ಮ ದೇಶದ ಬೆಳವಣಿಗೆ ಕೊಡಲಿ ಪಟ್ಟನ್ನು ನೀಡುತ್ತದೆ. ಆದರೆ ಮುಂದುವರೆದ ಬುದ್ಧಿವಂತ ದೇಶಗಳು ಇವನ್ನೇ ಬಂಡವಾಳವನ್ನಾಗಿಸಿಕೊಂಡು ಆ ದೇಶಗಳ ಬುದ್ಧಿವಂತ ಶಕ್ತಿಯನ್ನು ಹತ್ತು ಹಲವು ಆಲ್ಯಾಫ್‌ವೋಡ್‌ವ ಮೂಲಕ ತನ್ನತ್ತ ಸೆಳೆದುಕೊಂಡು ತನ್ನ ದೇಶವನ್ನು ಮತ್ತೊಷ್ಟು ಬಲಿಷ್ಟುಗೊಳಿಸಿಕೊಳ್ಳುತ್ತದೆ. ಇದರಿಂದಾಗಿ ಜಗತ್ತಿನ ಮುಂದುವರಿದ ಹಾಗೂ ಮುಂದುವರಿಯದ ದೇಶಗಳ ನಡುವಿನ ಕಂದಕದ ಆಳ ಮತ್ತೊಷ್ಟು ವಿಸ್ತಾರಗೊಳ್ಳುತ್ತಲೆ ಸಾಗಿದೆ.

ಇಂದು ಯುವ ಜನತೆಯ ಮುಂದೆ ಹಲವಾರು ಆಯ್ದುಗಳಿವೆ ಎಲ್ಲವನ್ನೂ ಒಪ್ಪಿಕೊಳ್ಳುವ ತುಡಿತವೋ? ಅನಿವಾರ್ಯತೆಯೋ? ಮಾರಕವೋ? ಪೂರಕವೋ? ಅದನ್ನರಿಯದ ಯುವಕರು ದಾವಂತದಲ್ಲಿ ನುಗ್ಗಿ ಎಡವಿ ಬೀಳುತ್ತಿದ್ದಾರೆ. ಉದಾಹರಣೆ - ಸಾಮಾಜಿಕ ಜಾಲತಾಣ ಅತ್ಯಾಧುನಿಕ ತಂತ್ರಜ್ಞನ ಆಕಾರಕ ರೀತಿಯಲ್ಲಿ ಕಾಣಾವ ವಿದೇಶಿ ಭಾಷೆ.

೨೦೨೦ ರ ಹೊತ್ತಿಗೆ "ಮುಂದುವರಿದ ಭಾರತ"ವನ್ನು ಕಟ್ಟುವ ಕನಸುಳ್ಳ ನಾವು ಪೂರಕವಾದ, ಪೇರಕವಾದ, ಪೋಷಕವಾದ ಶ್ರೀಕೃಷ್ಣ ಸಂಸ್ಥಾರವನ್ನು ಯುವಜನತೆಗೆ ನೀಡಬೇಕು. ಯುವಜನರ ಬದುಕು ಹುದ್ದೆ-ಮುದ್ದೆ- ಗಿಡ್ಯುಲ್ಲಿಯೇ ಕಳೆದುಹೊಗಬಾರದು. ಯುವಜನರ ನಗು ದೇಶದ ನಗುವಾಗಬೇಕು, ಯುವಕರನ್ನು ರಾಷ್ಟ್ರ, ನಿರ್ಮಾಣದ ಬೃಹತ್ ಕ್ಷೇಂದ್ರ್ಯಾದ ಸೇವಕರನ್ನಾಗಿ ರೂಪಿಸಬೇಕು.

ಭವ್ಯ ಭಾರತದ ಕನಸನ್ನು ನನ್ನ ಕೆಣ್ಣುಗಳಲ್ಲಿ ತುಂಬಿಕೊಂಡಂತಹ ಶಕ್ತಿ, ಯುಕ್ತಿ, ಜ್ಞಾನ ಭಂಡಾರವನಿಸಿರು ವಂತಹ ಯುವ ಜನತೆಯಿಂದಲೇ ಭಾಗಶಃ ತುಂಬಿರುವ ನಮ್ಮ ದೇಶ ಇನ್ನೂ ಏಕೆ ಮುಂದುವರಿಯತ್ತಿರುವ ದೇಶವಾಗಿಯೇ ಉಳಿದುಕೊಂಡಿದೆ? ಜಾಗತಿಕ ಮಟ್ಟದಲ್ಲಿ ಇನ್ನೂ ಏಕೆ ತನ್ನ ಸಂಪೂರ್ಣ ಅಸ್ತಿತ್ವ ಹುಡುಕಾಟದಲ್ಲಿದೆ? ಎಂಬ ಪ್ರಶ್ನೆಗಳು ಉದ್ದೇಶದ ಇರಲಾರವು.

**NARESH GANAPATI BHAT**

**4<sup>TH</sup> SEM**



# ಮತ್ತೆ ಮರಳಬೇಕೆಂದು ಮನಾಳಾದಿ ಬಾಲ್ಯದ

## ಆದ ನೈಸಾರಿನ ಬಿನಾಂಗದೆ

ಪುಸ್ತಕದ ಒಳಗಿನ ನವಿಲುಗರಿ ಇವತ್ತು ಮರಿಹಾಕಿದೆಯ ಎಂದು ನೋಡುತ್ತಿದ್ದ ಮುಗ್ಗೆ ಕ್ಷಣಗಳು..

ಅವು ಕೊಡಿಸಿದ ಬಣ್ಣದ ಭತ್ತಿ ಹಿಡಿದು ಶಾಲೆಯ ದಾರಿಯುದ್ದಕ್ಕೂ ಕಹಿಚೆಷ್ಟೇ ಆಡುತ್ತಾ ಹೋಗುತ್ತಿದ್ದ ತುಂಟು ಕ್ಷಣಗಳು..

ಶಾಲೆಯಿಂದ ಬಂದಾಗ ದಾರಿ ಕಾಯುತ್ತಿದ್ದ ಅಜ್ಞನ ತೊಡೆಯ ಮೇಲೆ ಕುಳಿತು ಎಲೆ-ಅಡಿಕೆ ತಿನಿಸುತ್ತೇ ಕಳೆದ ಬಾಂಧವ್ಯದ ಕ್ಷಣಗಳು..

ಶನಿವಾರ ಬಂದರೆ ಸಾಹು ದಿನವಿಡೀ ಚಿನ್ನಿ ದಾಂಡು, ಕಳ್ಳಿ ಪೋಲೀಸ್ ಆಡುತ್ತಾ ಬೆಟ್ಟ ಗುಡ್ಡ ಅಂತ ಸುತ್ತುತ್ತಿದ್ದ ಖಾಷಿಯ ಕ್ಷಣಗಳು..

ಅವುನನ್ನು ಹೀಡಿಸಿ ಮನೆಯ ಅಂಗಳಿಗೆ ಜೋಕಾಲಿ ಕಟ್ಟಿಸಿಕೊಂಡು ಆಡುತ್ತಿದ್ದ ಸುಂದರ ಕ್ಷಣಗಳು..

ಉಂಟ ಮಾಡಲ್ಲ ಎಂದು ಅತ್ಯಾಗ ಅಮ್ಮೆ ಹೇಳುತ್ತಿದ್ದ ಗುಮ್ಮನ ಕಥೆ ಕೇಳಿ ಹೆದರಿ ಉಂಟ ಮಾಡುತ್ತಿದ್ದ ನಿಷ್ಟಲ್ಲಿ ಕ್ಷಣಗಳು..

ಅಣ್ಣ ಅದೇನೇ ಹೋಸ ಆಟಿಕೆ ತೆಂದರೂ ಅದು ನಂಗೇ ಬೇಕು ಅಂತ ಜಗಳವಾಡಿ ಕಿತ್ತುಕೊಳ್ಳುತ್ತಿದ್ದ ಕ್ಷಣಗಳು..

**ಇವೆಲ್ಲ ಬಾಲ್ಯದ ಸುಂದರ ಕ್ಷಣಗಳು..**

ಅಮ್ಮನ ಅಪ್ಪಿಗೆ, ಅಪ್ಪನ ಆಸರೆ, ಅಣ್ಣನ ಜೋತೆ, ಅಜ್ಞನ ಪ್ರೀತಿ, ಸ್ನೇಹಿತರ ಒಡನಾಟ ಮತ್ತು ಬೆಚ್ಚನೆಯ ಗೂಡು...  
ಇವೆಲ್ಲ ಸೇರಿ ಬಾಲ್ಯವನ್ನು ಒಂದು ಉಡುಗೊರೆಯಾಗಿಸಿದೆ...

ಬಾಲ್ಯ ಬದುಕಿನ ಮೊದಲ ಸಂಜಿಕೆ...

ಅಲ್ಲಿ ದೂರತ ಸಂಸ್ಕಾರ ಮುಹ್ವಿನ ವರಗೂ ಉಳಿಯುತ್ತದೆ....

ಅಲ್ಲಿನ ಸಂಭ್ರಮ ಸದಾ ನೆನಪುಗಳ ಬತ್ತಳಿಕೆಯಲ್ಲಿರುತ್ತದೆ...

ಅಲ್ಲಿ ಯಾವುದನ್ನೂ ನಾವು ಹಣದಿಂದ ಪಡೆದಿಲ್ಲ, ಎಲ್ಲವನೂ ಪ್ರೀತಿಯಿಂದ ಪಡೆದಿದ್ದೇವೆ....

ಅದಕ್ಕೇ ಅಲ್ಲಿನ ಸಂಭ್ರಮ ಈಗ ಬೆಲೆ ಕೊಟ್ಟರೂ ಸಿಗೆದು...

ಹೊಡಲು ನಮ್ಮಲ್ಲಿ ನಿಸಾವಧಿದ ಪ್ರೀತಿಯೂ ಇರದು..!!

ತೆರೆದಷ್ಟೂ ಮುಗಿಯದ ನೆನಪಿನ ಪುಟಗಳ ಹೊತ್ತಿಗೆ ನಮ್ಮ ಬಾಲ್ಯ.

ಮೊಬೈಲ್, ಇಂಟರ್ನೆಟ್ ಇದಾವುದರ ನೆರಳೂ ಸೋಕದ

ದಿನಗಳನ್ನು ಮೆಲುಕು ಹಾಕುವ ಮನಸ್ಸಾಗಿದೆ ಇಂದು.

ಬಾಲ್ಯದ ಆ ಮುಗ್ಗೆ ಮನಸ್ಸಿತಿಯ ಕ್ಷಣಗಳನ್ನು

ನೆನಪಿಸಿಕೊಳ್ಳಲು ಸಮಯ ಇದ್ದರೂ ಇಲ್ಲದಂತೆ.

ಕಳೆಯುವಾಗ ತಿಳಿಯಲ್ಲಿ ಸಮಯ ಇಷ್ಟ್ವಾದೆಂದು

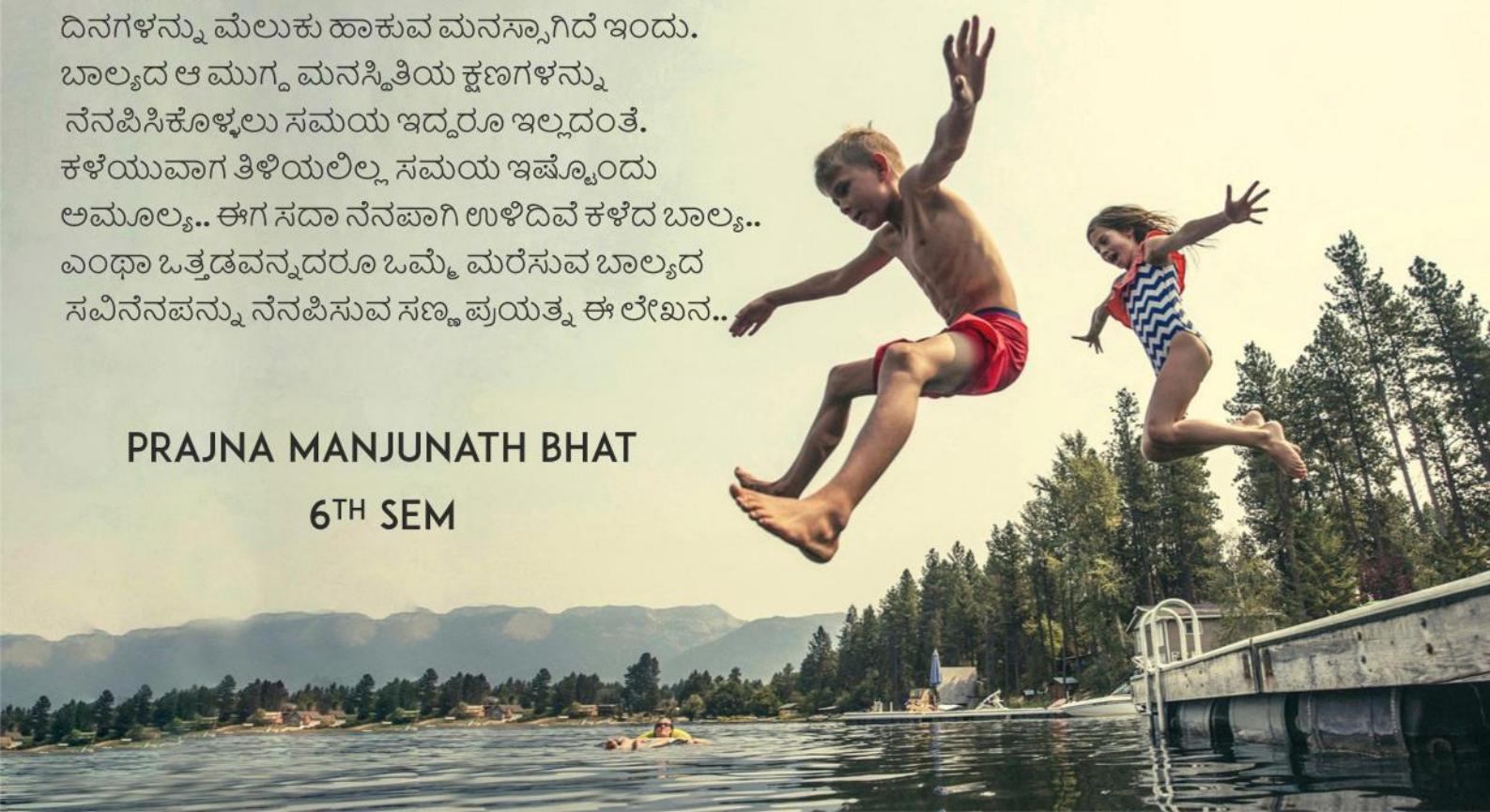
ಅಮೂಲ್ಯ.. ಈಗ ಸದಾ ನೆನಪಾಗಿ ಉಳಿದಿವೆ ಕಳೆದ ಬಾಲ್ಯ..

ಎಂಥಾ ಒತ್ತಡವನ್ನು ದರೂ ಒಮ್ಮೆ ಮರಸುವ ಬಾಲ್ಯದ

ಸಲಿನೆನಪನ್ನು ನೆನಪಿಸುವ ಸಣ್ಣಪ್ರಯತ್ನ ಈ ಲೇಖನ..

PRAJNA MANJUNATH BHAT

6TH SEM



# ಎನ್ನೆಯ ಕಂಡ

ನಮ್ಮೆಲ್ಲರಿಗೂ ಅಮ್ಮ ಎಂದರೆ ಏನೋ ಪ್ರೀತಿ-ವಾತ್ಸಲ್ಯ ನಮ್ಮನ್ನು ನವಮಾಸ ಹೊತ್ತಳೆಂದೋ, ಅಥವಾ ಹೆತ್ತಮೇಲೆ ಆರೆಕೆ ಮಾಡಿದಳೆಂದೋ, ಎಲ್ಲರಿಗೂ ತಮ್ಮ ತಾಯಿ ಎಂದರೆ ಗುಡಿಯಲ್ಲಿರುವ ದೇವರೇ ಸರಿ.

ಈಗ ನಾನು ಹೇಳಬಯಸಿರುವುದು ನಮ್ಮೆಲ್ಲರ ದೇವರ ಗುಡಿಯ ಕಳಿತದ ಬಗ್ಗೆ, ಕಳಿತ ಎಂದರೆ ದೇವಸ್ಥಾನದ ಗೋಪುರದ ಮೇಲೆ ನಮ್ಮೆಲ್ಲರ ಕಣ್ಣು ಕುಕ್ಕುವಂತೆ ಹಾಗೂ ದೇವಸ್ಥಾನಕ್ಕೆ ಶೋಭೆ ತರುವ ಲೋಹದ ಆಕೃತಿ.

ನಮ್ಮೆಲ್ಲರ ತಾಯಿಯನ್ನು ನಾವು ದೇವರೆಂದು ಭಾವಿಸಿದರೆ, ತಂದೆಯನ್ನು ಕಳಿತ ಎನ್ನುವುದು ತಪ್ಪಲ್ಲ. ಎಲ್ಲರೂ ಸಾಮಾನ್ಯವಾಗಿ ತಾಯಿಯನ್ನು ಪ್ರೀತಿಸುವುದು ಹೆಚ್ಚು ಆದರೆ ತಂದೆಯನ್ನು ಕಂಡರೆ ಗೌರವ, ಭಯ ಇರುತ್ತದೆ.

ಯಾರಾದರೂ ಒಂದು ಮಗುವಿನ ತಂದೆ ಆಗಬಹುದು, ಆದರೆ ತಂದೆಯ ಸ್ಥಾನ ಅಥವಾ ಅದರ ಜವಬ್ಬಾರಿಗಳನ್ನು ತುಂಬಲು ಜೀವಮಾನ ತೆಗೆದುಕೊಳ್ಳುತ್ತದೆ. ಮಗುವಿನ ಜೀವನದಲ್ಲಿ ಬೇರೆಯವರ ಪಾತ್ರಕ್ಕಿಂತ ತನ್ನ ತಂದೆಯ ಪಾತ್ರ ಮುಖ್ಯವಾದದ್ದು. ತಂದೆಯು ತನ್ನ ವ್ಯಕ್ತಿತ್ವ ಮತ್ತು ಸಿದ್ಧಾಂತದ ಅಡಿಯಲ್ಲಿ ತನ್ನ ಮಗುವನ್ನು ಉತ್ತಮ ವ್ಯಕ್ತಿಯಾಗಿ ರೂಪಿಸುವಲ್ಲಿ ಸಹಾಯ ಮಾಡುತ್ತಾನೆ.

ಅಪ್ಪ ಅನೋವು ಎರಡು ಅಕ್ಷರಗಳು ಸ್ವಲ್ಪ ಭಾರ, ಚಿಕ್ಕವರಿಂದ ಅಮ್ಮನ ಜೊತೆಗೆ ಹೆಚ್ಚು ಬಂಧವಿರುವ ನಮಗೆ ಅಪ್ಪನ ನೋವು ತಿಳಿಯದು. ತಮಗೇನಾದರೂ ಸರಿಯೇ, ತಮ್ಮ ಮಕ್ಕಳನ್ನು ತನಗಿಂತ ಎತ್ತರದ ಸ್ಥಾನದಲ್ಲಿ ನೋಡಬೇಕೆನ್ನುವುದು ಅವರಿಗಿರುವ ಉದ್ದೇಶ. ತನ್ನ ವರಮಾನ ಖಚಿತಗಳ ನಡುವಿನಲ್ಲಿ ಸಿಕ್ಕಕೊಂಡರು ನಮಗೆ ಬೇಕಾದನ್ನು ನೀಡುವ ದೋರೆ ಆತ. ತನ್ನದೆಂದು ಏನು ಮಾಡಿಕೊಳ್ಳಿದ್ದರೂ ಮಕ್ಕಳಿಗಾಗಿ ಎಲ್ಲಾ ಮುಡಿಪಾಗಿ ಇಟ್ಟಿರುವ.

ಮಕ್ಕಳು ತಮ್ಮ ತಂದೆಯನ್ನು ನಿಯಮಗಳನ್ನು ರೂಪಿಸುವ ಅಥವಾ ಜಾರಿಗೊಳಿಸುವ ಅಧಿಕಾರಿಯಂತೆ ಕಂಡರೂ, ದೈಹಿಕ ಮತ್ತು ಭಾವನಾತ್ಮಕ ಎರಡೂ ಸುರಕ್ಷತೆಯ ಭಾವನೆಯನ್ನು ಒದಗಿಸಲು ಅವರು ತಮ್ಮ ತಂದೆಯತ್ತ ನೋಡುತ್ತಾರೆ.

ತಂದೆಯ ಪ್ರೀತಿ ಮತ್ತು ಬೆಂಬಲವಿರುವಾಗ, ಇದು ಮಗುವಿನ ಅರಿವಿನ ಮತ್ತು ಸಾಮಾಜಿಕ ಬೆಳೆವಣಿಗೆಯ ಮೇಲೆ ಹೆಚ್ಚು ಪರಿಣಾಮ ಬೀರುತ್ತದೆ, ಎಂದು ಅಧ್ಯಯನಗಳು ತೋರಿಸಿವೆ. ಒಟ್ಟಿನಲ್ಲಿ ಇದರಿಂದ ಮಗುವಿನ ವ್ಯಕ್ತಿತ್ವ ರೂಪಗೊಳ್ಳುವುದಲ್ಲದೆ ಆತ್ಮವಿಶ್ವಾಸ ಹೆಚ್ಚಾಗುತ್ತದೆ.

ತಂದೆಯಿಂದ ಮಗುವು, ತನ್ನ ತಂದೆ ಹೇಗೆ ಹಿರಿಯರೊಂದಿಗೆ ವರ್ತಿಸುತ್ತಾರೋ ಹಾಗೆಯೇ ಮಗು ಕಲಿಯುತ್ತದೆ. ಹೇಗೆಯೇ ತಂದೆಯಿಂದ ಬಾಂಧವ್ಯಗಳ ನಂಟು ಹಾಗೂ ಸಮಾಜದಲ್ಲಿ ಹೇಗೆ ವರ್ತಿಸಬೇಕೆಂದು ಕಲಿಯುತ್ತಾರೆ. ನನ್ನಂತೆಯೇ ಎಲ್ಲರಿಗೂ ತಮ್ಮ ತಂದೆಯೇ ಒಳ್ಳೆಯ ಕಾರ್ಯಗಳಿಗೆ ಸ್ವಾತಿತ್ವಯಾಗಿರುತ್ತಾರೆ, ಮತ್ತು ಮಕ್ಕಳು ತಮ್ಮ ತಂದೆಯನ್ನು ಹೆಮ್ಮೆ ಪಡಿಸಲು ಬಯಸುತ್ತಾರೆ.

ಒಟ್ಟಾರೆಯಾಗಿ ಹೇಳುವುದಾದರೆ, ನಿಜಜೀವನದ ನಾಯಕ ಎಂದು ನಮ್ಮೆಲ್ಲರ ತಂದೆಯನ್ನು ಕರೆಯಬಹುದು. ಅವರು ಪರಿಸ್ಥಿತಿಗಳು ನಿರ್ವಹಿಸುವರೇತಿ, ಕರಿಣಿ ಸಂದರ್ಭದಲ್ಲಿ ತಾಳೆಯಿಂದ ಪರಿಹರಿಸುವರೇತಿ ಎಲ್ಲರನ್ನು ಮೆಚ್ಚಿಸುತ್ತಿರುತ್ತಾರೆ. ನಮ್ಮೆಲ್ಲರನ್ನು ಸಾಕಲು ತಮ್ಮ ಜೀವನನ್ನೇ ಸಲಿಸುತ್ತಾರೆ, ಮುಡಿಪಾಗಿಟ್ಟಿರುತ್ತಾರೆ ಮತ್ತು ನಮಗೆಲ್ಲಾ ಒಳ್ಳೆಯ ವ್ಯಕ್ತಿತ್ವವನ್ನು ನೀಡುತ್ತಾರೆ. ಅದಕ್ಕಾಗಿ ನಾ ಹೇಳುವೆ “ನನ್ನಯ ತಂದೆ ಎನ್ನಯ ಕಳಿತ”.

" ಶರಕಾರಿ ಶಾಲೆಗಳು ಮತ್ತು ಕಾನೂನು "

ఈ ప్రాపంచిక స్టడీ అద్వాతదల్లి కన్నడ భాష ఒందు కడలు. అదరల్లి ముళగిదష్ట్ట ముత్తు, తేలిదష్ట్ట స్వచ్ఛంద ఆకాశదగత్తు, ఇణుకిదరే ఒడలాళదల్లి సాహిత్య రాశియ అనంత సంపత్తు. కన్నడ భాష ఇష్ట శ్రీమంతవాగిద్దరూ సహ కనాటకదల్లి మాత్ర ఆధునిక కన్నడిగర భాషాభిమానదల్లోనో కుందు. కన్నడిగర భాషయ మేలిన ఈ తిరస్కారదిందాగి ఇందు తేపు హోడెతక్క తుత్తుగిరువుదు నమ్మి సకారి కన్నడ శాలెగళ్లు. వోదలే సరియాద నివ్వహణయిల్లద సోరగి హోగిద్ద కన్నడ శాలెగళ్లు ఇందు ముఖ్యవ హంతక్క తలుపివే. ఈగలూ నావు ఎళ్ళత్తు కోళ్ళదిద్దరే కన్నడ శాలెగళ్లు మాయవాగి కన్నడ భాష మరితు హోగువుదరల్లి యావుదే అనుమావిల్లు.

ಇಂದಿನ ಹಲವು ಜಾಗತಿಕ ಸಮಸ್ಯೆಗಳ ನಡುವೆ ನಮ್ಮ ರಾಜ್ಯ ಸರ್ಕಾರಕ್ಕೆ ಶೈಕ್ಷಕರ ವೇತನದ ಖಚಣನ್ನು ನಿಭಾಯಿಸುವುದೇ ದೊಡ್ಡ ಸಾಂಪ್ರದಾಯಿಕ ಪ್ರಾಣಿಗಳ ನಿರ್ವಹಣೆ ಮತ್ತು ಉದ್ದೇಶಗಳ ಅನುಷ್ಠಾನ ಕ್ಷಣಿಕೆಗಳನ್ನು ಒಳಗೊಂಡಿರುವ ಕಾರ್ಯಕ್ರಮವಾಗಿದೆ. ಈ ಕಾರ್ಯಕ್ರಮವು ಶಿಕ್ಷಕರ ವೇತನದ ಖಚಣನ್ನು ನಿಖಿಲವಾಗಿ ಮತ್ತು ಸಾರ್ಥಕವಾಗಿ ಕಾರ್ಯಕ್ರಮವಾಗಿ ಮಾಡಬಹುದಾಗಿದೆ. ಈ ಕಾರ್ಯಕ್ರಮವು ಶಿಕ್ಷಕರ ವೇತನದ ಖಚಣನ್ನು ನಿಖಿಲವಾಗಿ ಮತ್ತು ಸಾರ್ಥಕವಾಗಿ ಕಾರ್ಯಕ್ರಮವಾಗಿ ಮಾಡಬಹುದಾಗಿದೆ.

సక్కారి శాలేగళ్ల ఉళ్లిపు మత్తు ఎళ్లోగాని కెలవు మాగ్ఫిగళ్లు:

- ನಮ್ಮ ರಾಜ್ಯದ ವಿಶ್ವವಿದ್ಯಾಲಯಗಳು ಮತ್ತು ಆರ್ಥಿಕವಾಗಿ ಸಬಲವಾಗಿರುವ ಸಂಸ್ಥೆಗಳು ಸರ್ಕಾರಿ ಶಾಲೆಗಳನ್ನು ದತ್ತು ಪಡೆದು ಅವುಗಳನ್ನು ಅಭಿವೃದ್ಧಿ ಪಡಿಸಬಹುದು.
  - ಆಯ್ದುಯಾದ ಜನ ಪ್ರತಿನಿಧಿಗಳು ಅವರದ್ದೇ ಆದ ಸ್ವಂತ ಶಾಲೆ ತರೆಯುವ ಬದಲು ಸರ್ಕಾರಿ ಶಾಲೆಗಳನ್ನು ದತ್ತು ಪಡೆದು ಅವುಗಳ ಏಳಿಗೆ ಸಹಕರಿಸುವುದು.
  - ಸರ್ಕಾರಿ ಶಾಲೆಗಳಲ್ಲಿ ಇರುವ ಶಿಕ್ಷಕರ ಕೊರತೆಯನ್ನು ನೀಗಿಸಿ ಪ್ರತಿಯೊಂದು ತರಗತಿ ಹಾಗೂ ಲಿಷಯಿಗಳಿಗೆ ಅದರಲ್ಲಿ ನೀಪುಣರಾದ ಶೀಕ್ಷಕರ ನೇಮಕಾತಿ ಮಾಡುವುದು.

- ನೇಮಿಸಲ್ಪಟ್ಟ ಶಿಕ್ಷರಿಗೆ ಆಯಾ ಲಿಷಯಗಳು ಕುರಿತು ಹೊಸ ಸಂಗತಿ ಹಾಗೂ ಸಂಶೋಧನೆಗಳ ಕುರಿತು ಉತ್ತಮವಾದ ತರಬೇತಿಯನ್ನು ಒದಗಿಸುವುದು.
- ಪ್ರತಿ ಶಾಲೆಗಳಿಗೆ ಸುಸೆಜ್ಜಿತ ಕಟ್ಟಡಗಳು, ಕುಡಿಯುವ ನೀರು, ಶೌಚಾಲಯ, ಬಿಸಿಯೂಟ್, ಬಟ್ಟೆ ಮತ್ತು ಪುಸ್ತಕಗಳ ಕೊರತೆ ಎದುರಾಗದಂತೆ ನೋಡಿಕೊಳ್ಳುವುದು.
- ಸರ್ಕಾರಿ ಶಾಲೆಗಳಲ್ಲಿಯೂ ಸಹ ಹಿನ್ನೆಸರಿ, ಎಲ್ಲ ಕೆ ಜಿ, ಯು ಕೆ ಜಿ ಆರಂಭಿಸಿದರೆ ಮಕ್ಕಳ ದಾಖಲಾತಿ ಹೆಚ್ಚಿತ್ತದೆ. ಅವರನ್ನು ಪಾರಂಭದಲ್ಲಿಯೇ ಸರ್ಕಾರಿ ಶಾಲೆಗಳಿಗೆ ಸೇರುವಂತೆ ಮಾಡಬಹುದು.
- ಸರ್ಕಾರಿ ಶಿಕ್ಷಕರು ಕೇವಲ ಮಕ್ಕಳೊಡನೆ ಬೇರೆತು ಅವರ ಮನಸ್ಸನ್ನು ಅರ್ಥ ಮಾಡಿಕೊಂಡು ಅವರ ಅಭಿರುಚಿಗೆ ತಕ್ಷಂತೆ ಪಾಠ ಮಾಡುವಂತೆ ನೋಡಿಕೊಳ್ಳಬೇಕು. ಇದಕ್ಕಾಗಿ ಅವರಿಗೆ ಇಲಾಖೆ ನೀಡುತ್ತಿರುವ ಅವರಿಗೆ ಸಂಬಂಧಿಸಿದ ಹೆಚ್ಚಿವರಿ ಕೆಲಸಗಳನ್ನು ಕಡತಗೊಳಿಸುವುದು.

ಈ ಮೇಲಿನ ಯೋಜನೆಗಳನ್ನು ಯಶಸ್ವಿಯಾಗಿ ಕಾರ್ಯ ರೂಪಕ್ಕೆ ತಂದಾಗ ಮಾತ್ರ ಪೋಷಕರು ಮತ್ತು ವಿದ್ಯಾರ್ಥಿಗಳನ್ನು ಸರ್ಕಾರಿ ಶಾಲೆಗಳತ್ತ ಆಕರ್ಷಿಸಬಹುದು. ಪೋಷಕರು ಖಾಸಗಿ ಶಾಲೆಗಳತ್ತ ಮುಖ ಮಾಡಿದರೆ ಶಿಕ್ಷಣ ತಜ್ಞರ ಒಲವು ಸರ್ಕಾರಿ ಶಾಲೆಗಳತ್ತ ಇದೆ. ಖಾಸಗಿ ಶಾಲೆಗಳಲ್ಲಿ ವಿದ್ಯಾರ್ಥಿಗಳ ಸರ್ವತೋಮುಖ ಬೆಳವಣಿಗೆಯ ಕಡೆ ಗಮನ ಕೊಡದೆ ಅವರನ್ನು ಆಧುನಿಕ ಯಂತ್ರಗಳಿಂತ ಪೂರ್ಣಿಸಲಾಗುತ್ತಿದೆ. ಅವರ ಶ್ರಯಾಶೀಲತೆಗಳಿಗಿಂತ ಅವರು ಗಳಿಸುವ ಅಂಕಗಳಿಗೆ ಹೆಚ್ಚಿ ಮಹತ್ವ ಕೊಡಲಾಗುತ್ತಿದೆ. ಇದು ನಮ್ಮ ಶಿಕ್ಷಣ ಪದ್ಧತಿಯ ಬಹು ದೊಡ್ಡ ದುರಂತ. ಆದ್ದರಿಂದ ಮಕ್ಕಳ ಶಿಕ್ಷಣದಲ್ಲಿನ ಕೃತಕರೆಯನ್ನು ಧಿಕ್ಕರಿಸಿ ಅವರ ಸಹಜತೆಗೆ ಹೆಚ್ಚಿ ಬೆಂಬಲ ನೀಡಿ ಎಲ್ಲಡೆಯೂ, ಎಲ್ಲರಿಗೂ ಸರ್ವತೋಮುಖ ಶಿಕ್ಷಣ ದೊರೆಯುವಂತೆ ಮಾಡಿದರೆ ಮಾತ್ರ ವಿದ್ಯಾರ್ಥಿಗಳ ಭವಿಷ್ಯ, ನಮ್ಮ ನಾಡು - ನುಡಿ, ಹಾಗೂ ಭಾಷೆಗಳ ಬೆಳವಣಿಗೆಯಾಗುತ್ತದೆ.

**SHRIYA BHAT BALEHITTALU**  
**2ND SEM**

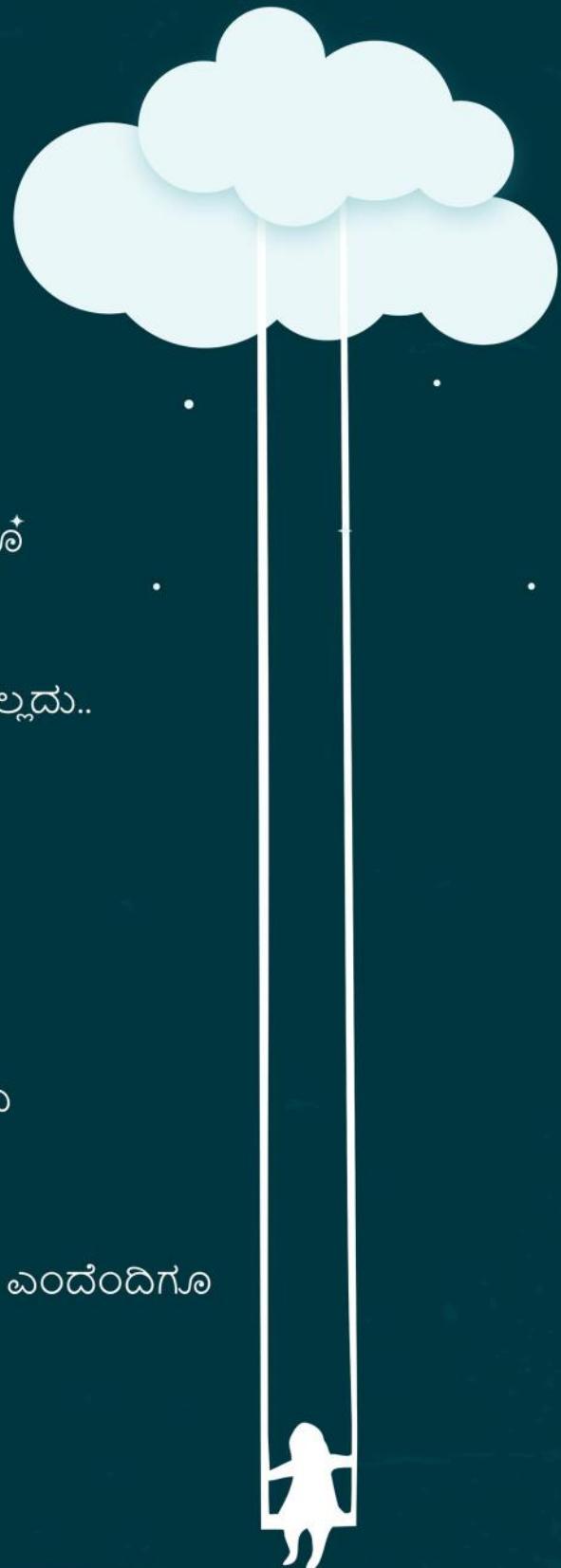
**ಶ್ರೀಯಾ ಬತ್ ಬಾಲೇಹಿಟ್ಟಲು**  
**ಕನಾಡಿಕ**

# ಯಾಲಿದೆ ಹೊತ್ತು...?

ಬೀರಿ ದೀಪಗಳ ಹೊನಲು ಬೆಳಕಿನ ಸಂತೇಯಲಿ  
ಮುಸ್ಸಂಜೆ ಕವಿದು ಮನಸುಗಳು ಕಲೆತಾಗ  
ಗರಿಗೆದರಿದ ಕನಸುಗಳು ಮಸುಕಾಗದಿರಲಿ ಎಂದೆಂದಿಗೂ  
ಯಾರಿಗೆ ಗೊತ್ತು...?  
ಈ ಕನಸಿನ ಜೋಳಿಗೆಯ ಮಾಲೀಕತ್ವವೇ  
ಮುಂದೊಮ್ಮೆ ನಮ್ಮನ್ನು ಕೈ ಹಿಡಿದು ನಡೆಸಬಲ್ಲದು..

ರಾಶಿ ನಕ್ಕತ್ರಗಳು ದಿಗಂತದಾಚೆ ಸರಿದು  
ಭರವಸೆಯ ಬೆಳಗು ಮೈ ಮನಗಳ ಆವರಿಸುತ್ತಲಿರಲು  
ಮೂಡಿದ ಕಲ್ಪನೆಯ ಕುರುಹು ವಿರಮಿಸದಿರಲಿ ಎಂದೆಂದಿಗೂ  
ಯಾರಿಗೆ ಗೊತ್ತು...?  
ಈ ಕಲ್ಪನೆಗಳ ನಡುವಿನ ಕೊಂಡಿಯ ಜೀಕಾಟವೇ  
ಮುಂದೊಮ್ಮೆ ನಮ್ಮ ಪಾಲಿನ ಅವಕಾಶಗಳಿಗಾಸರೆಯಾಗಬಲ್ಲದು..

ನೇಸರನ ಸುಡುಗಂಪು ಹಣೆಯಂಚ ತಾಕಿರಲು  
ಇಳಿಹೊತ್ತು ಹೆಗಲೇರಿಹೆ ಒತ್ತೇರುವ ಬಿಸಿಲು  
ನೆರಳೆಲ್ಲೋ ಕಳೆದಂತೆ ಪರಿತಪಿಸುವಾಗ ಈ ಬದುಕು  
ಕನವರಿಸಿದ ಹೊಸ ಚಿಂತನೆಯು ಕರಗದಿರಲಿ ಎಂದೆಂದಿಗೂ  
ಯಾರಿಗೆ ಗೊತ್ತು...?  
ಈ ಚಿಂತನೆಗಳ ಅಸ್ತಿತ್ವಕ್ಕಿರುವ ಭಿನ್ನತೆಯೇ  
ಮುಂದೊಮ್ಮೆ ನಮ್ಮ ಬದುಕಿಗೆ ಭದ್ರ ಬುನಾದಿಯಾಗಬಲ್ಲದು  
ಚಂದ್ರನ ಬರುವಿಕೆಯ ಬರ ಮಾಡಿಕೊಳ್ಳಲು  
ಜಗತ್ತು ದೀಪದ ಹಣತೆಯ ಆಡಿಯಲ್ಲಿ ಕುಳಿತ್ತಿರಲು  
ಸ್ಕೃತಿಯಾಳದಿ ಸುಳಿದಾಡಿದ ಆಸೆಗಳು ಅವಶೇಷವಾಗದಿರಲಿ ಎಂದೆಂದಿಗೂ  
ಯಾರಿಗೆ ಗೊತ್ತು...?  
ಈ ಆಸೆಗಳ ಇರುವಿಕೆಯ ಸಂಭ್ರಮವೇ  
ಮುಂದೊಮ್ಮೆ ನಮ್ಮ ಅಸ್ತಿತ್ವಕ್ಕೆ ಇತಿಹಾಸವಾಗಬಲ್ಲದು..



# ಪ್ರಕೃತಿ ನಾಡು

ಪ್ರಕೃತಿಗೆ ಮನವು ಸೋತಾಗ  
ನನಗರಿಯಿತು ಇದೆ ಮಲೆನಾಡೆಂದು  
ಕಣ್ಣದುರು ಹಸಿರು ಕಂಡಾಗ  
ನನಗರಿಯಿತು ಸ್ವರ್ಗವೆಂದರೆ ಇದು

ಹಸಿರು ಕಾನನದ ನಡುವೆ  
ಮನೆಗಳು ಅಲ್ಲಂದು ಇಲ್ಲಂದು  
ಗಿರಿ ಶೀಖರ ರುರಿ ಜಲಪಾತ್ರವೇ  
ತುಂಬಿದೆ ಇಲ್ಲಿ ಮೈಲಿಗೊಂದು

ಕಾಡುಗಳೇ ನಡುವೆ ಕಾಲ್ತಾರಿ  
ಅಲ್ಲಲ್ಲಿ ಕಾಣಸಿಗುವ ಹೆದ್ದಾರಿ  
ಉರೆಂದು ಕಲ್ಪಿಸುವ ನಾಲೆ  
ಕಲಿಸಲು ಗ್ರಾಮಕ್ಕೂಂದು ಶಾಲೆ

ನೋಡಲು ಚಂದ ಪ್ರಕೃತಿಯ ನೋಟ  
ಸವಿಯಲೇಬೇಕು ಇಲ್ಲಿಯ ಉಟ  
ಇನ್ನೆಲ್ಲೂ ಸಿಗದು ಇಂತಹ ಬೆರಗು  
ಕುಂದದಿರಲೆ ಎಂದಿಗೂ ಮಲೆನಾಡಿನ ಸೋಬಗು.

# अजाद् पिंजरा

न बादल न बरसात फिर भी बदली छाई है!

अब सच लगने लगा, जिन्दगी जैसे पराई है

जागती हूं हर सुबह एक नई उम्मीद लेकर  
फिर भी न जाने क्यों एक सुनापन सी छाई है,

न बादल न बरसात फिर भी बदली छाई है! ....

हर पल बस सोचती है दुनिया, जिन्दगी कहां ले आई है।

चार दिवारी में कैद हो गये हम,

मानो जिन्दगी ही कर रही, जिन्दगी से लड़ाई है।

न बादल न बरसात फिर भी बदली छाई है! .....

AMAN ANAND

2<sup>ND</sup> SEM



# मेहँदी

हर त्योहार मे लगती है मेहँदी  
जो औरत का शृंगार है ।

हाथो मे रंग चढ़ाती है मेहँदी  
उसके सुगंध से दिल पिगल जाता है ।

हाथो की सुंदरता बड़ाती है मेहँदी  
वह सुंदरता आँखों को आकर्षित करती है ।

हाथो को लाल करती है मेहँदी  
जो मुहब्बत का संकेत देती है ।

ससुराल मे अपने साथ ले जाति है मेहँदी  
जीस्से कभी अकेलापन महसूस नहीं होती ।

मेहँदी एक आकर्षण है ।  
मेहँदी एक भावना है ।  
मेहँदी एक शृंगार है ।

# यादें

के फिर याद आई आज वह खिलौने कि दुकान  
वह गुड़े गुड़ियों कि कहानी और वह कच्चे मकान  
वह रुठना वह मनाना और ना खरिदने पर उसकी  
शिकायत करना ।

के फिर याद आई आज वह खिलौने कि दुकान  
के फिर याद आई आज वह खिलौने कि दुकान !

SHEELA KUMARI

4<sup>TH</sup> SEM



# मतलब की दुनीया

मतलब की दुनीया है ये  
कौन अपना है कौन पराया  
समझने मे ही सालो लग जाती है  
यही है मतलब की दुनीया ।  
बाहर से मीठी बोल  
अंदर से सिरफ नफरत  
आज का सच्च यही तो है  
तुम जीतना भी परवाह करलो अनकी  
जिन्हे तुम अपना समझते हो  
फिरवी वोह लोग सिरफ समझेंगे  
मतलब की भाषा  
तुम तबतक हि उनको खास रहोगे  
जबतक अनको तुमसे मतलब रहेगा  
उसके बाद तो अपना रंग दिखा ही जाते है  
क्यूँ भी न दिखयेह  
यही तो है मतलब की दुनीया ॥

ISHANI BORA  
4<sup>TH</sup> SEM

# Sketches



~Gowda Pooja Umesh

It's a new innovation in henna design,  
which includes flowers and peacock.

VIDHYA R  
2<sup>ND</sup> SEM

Lord Krishna is as pure as a peacock and that is what feather signifies "SYMBOL OF PURITY". A peacock feather is said to have all seven colours of nature and it appears bluish in day and black at night. Even Lord Krishna appears Blue by day and Black by night, making him just like a peacock feather. It is beautiful that just by seeing at peacock feather we think of LORD KRISHNA

GOWDA POOJA UMESH  
4<sup>TH</sup> SEM





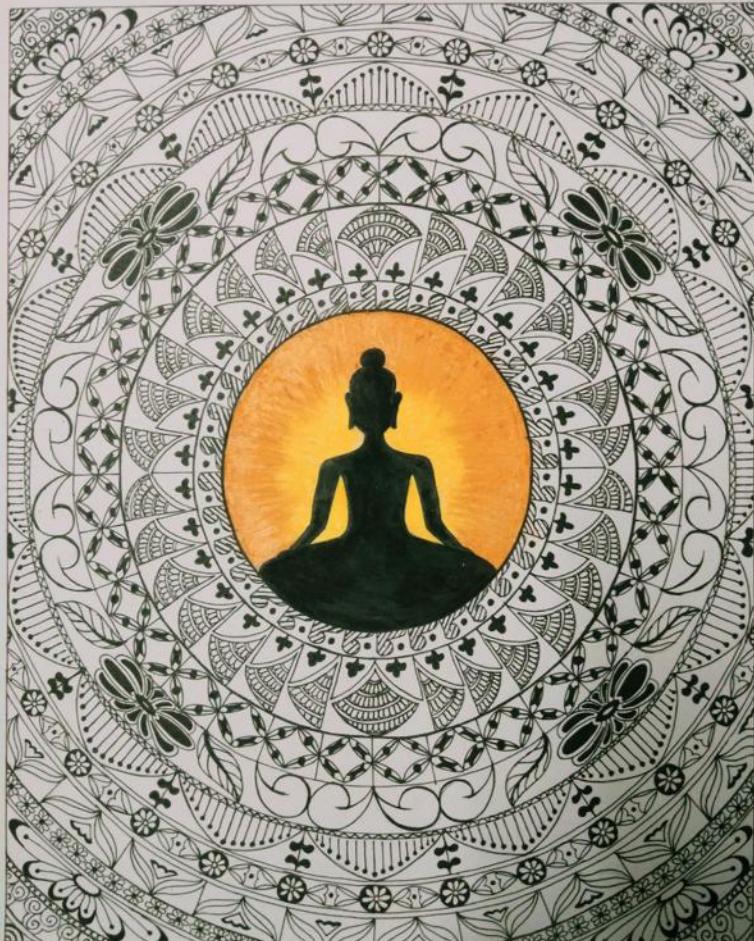
It's a new innovation in henna design,  
which includes flowers and peacock.

**VIDHYA R**  
**2<sup>ND</sup> SEM**

If you are quiet enough, you will hear  
the flow of the universe. You will feel  
its rhythm, go with this flow happiness  
lies ahead.

Meditation is key.” -BUDHA

**MADHUSHREE D**  
**2<sup>ND</sup> SEM**





Vakra-Tunndda Maha-Kaaya  
Surya-Kotti Samaprabha,  
Nirvighnam Kuru Me Deva  
Sarva-Kaaryessu Sarvadaa.

Ganesha is widely revered as the  
remover of obstacles,  
the patron of arts and sciences and  
deva of intellect and wisdom.

MEGHA MANDARA AP

2<sup>ND</sup> SEM

With advance technology, smart phones have evolved to be. So powerful and humans now have an insatiable appetite information at the fingertip.

A sense of urge to use the phone or any other gadget when bored or idle equates to addiction.

It doesn't discriminate who is affected, it affects all ages, groups and people of all races. The effect ranges from mental, physical, emotional, to even threatening our democracy.

KP SWATHI  
2<sup>ND</sup> SEM



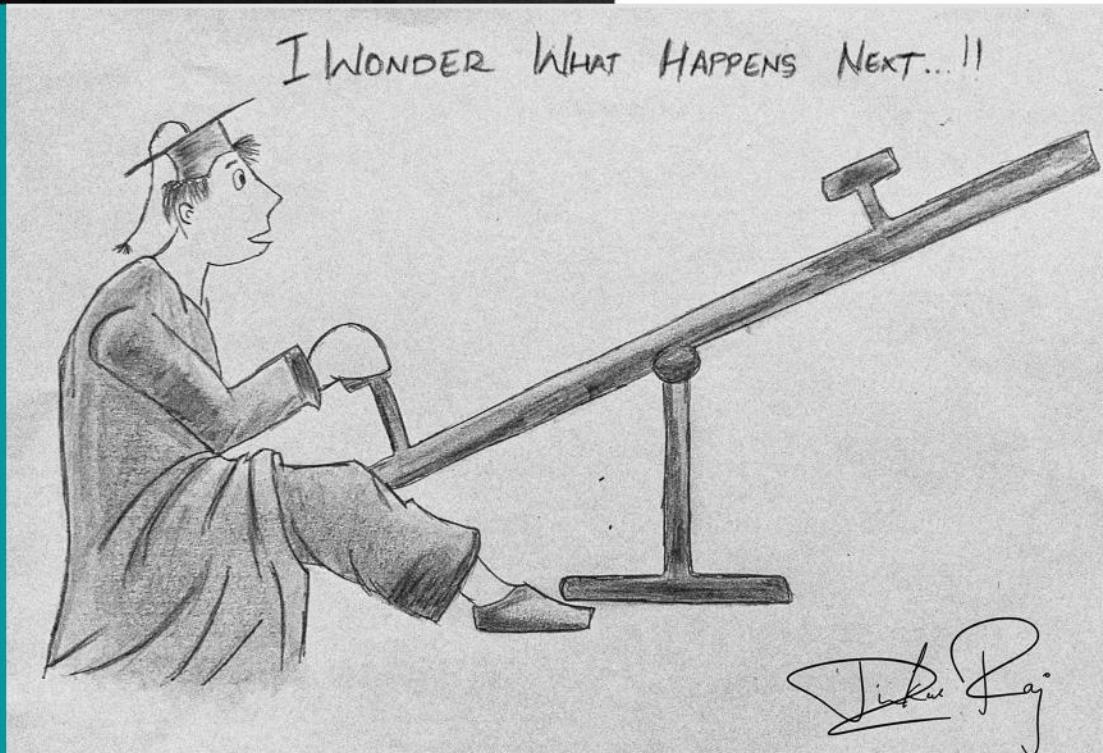
If one promises to love, care, adore, trust, respect and stand by someone regardless, one mustn't simply express them when times are acceptable. They must live those words when tough times arise. The more grounded the affection and responsibility is, the more solid and stronger the bond of love will be. Time doesn't measure love and friendship bonds and emotions do.



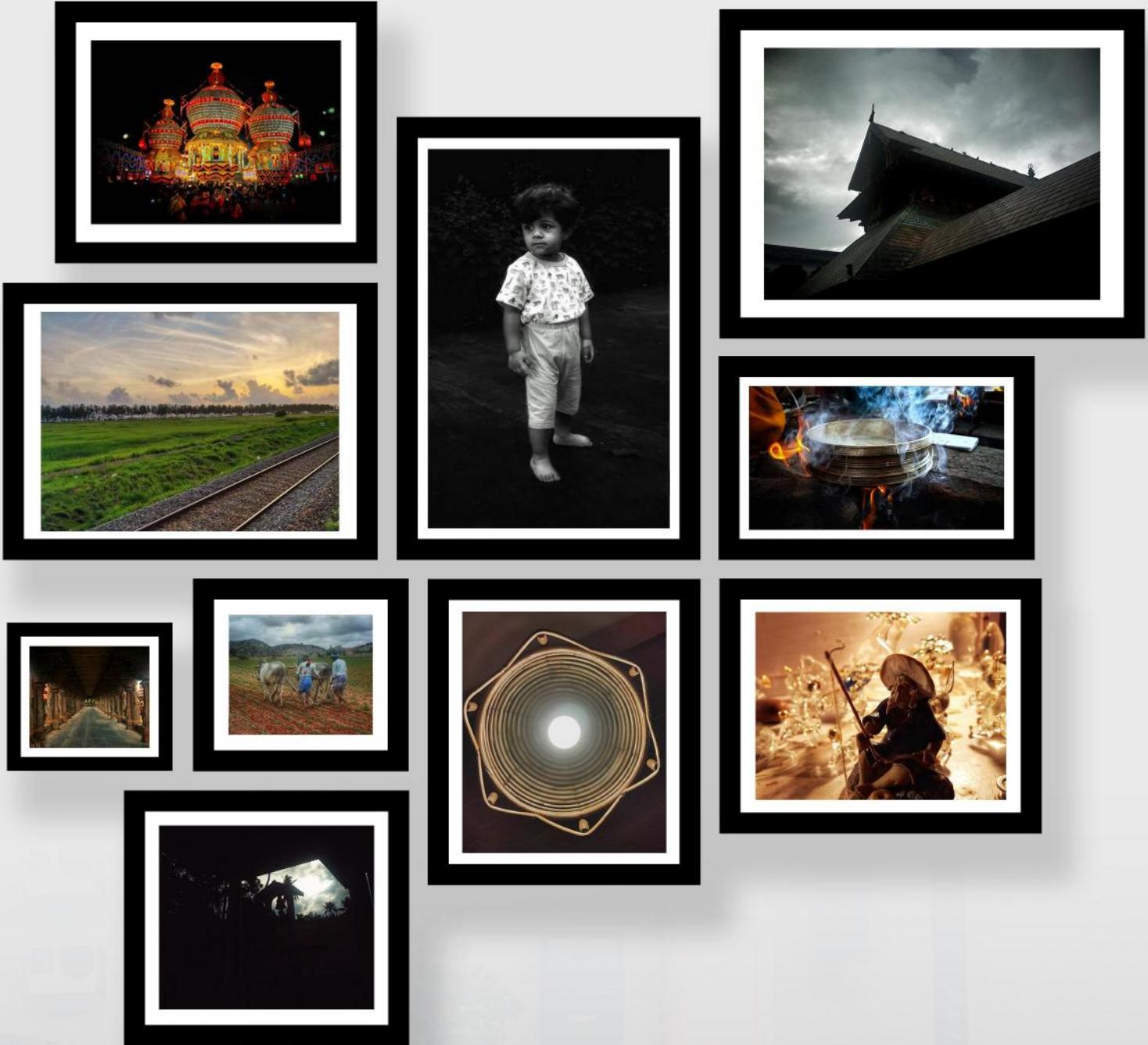
FIZA TAHREEN

4<sup>TH</sup> SEM

DIWAKAR R  
2<sup>ND</sup> SEM



In this chaotic world will I be able to compete with the rest ?  
Will I be able to achieve, what all I dream of ?  
Will I be called as the best ?  
Will time answer all my confused sets of quest ?  
I truly wonder what happens next !



Photography is an art of understanding.

the feelings of any moment

Only the artists like photographers can understand those feelings.

NISHANT BHAT

4<sup>TH</sup> SEM

MagicFiber

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**The Team STRIDE 2020**