

# SPARK'22

DEPARTMENT OF INFORMATION TECHNOLOGY









## About Department

The Department of Information Technology was established in the year 1999 with an intake of 60 students. In 2001, the intake was increased to 90 students and in 2006 the intake was increased to 120. The Department has been accredited by NBA for 3 Years and Anna University has recognized with permanent affiliation. Apart from making them good technocrats, the Department also provides individual attention to make them good citizens of our nation and to serve the industry and society constructively to make them good technocrats through futuristic plans. The Department inculcates entrepreneurial skills with ethical and social values. With the entire world in the grip of the versatile and vibrant World Wide Web, the science of Information Technology has become the most potent and powerful tool of the future. The Department has the state-of-the-art facilities for various labs, well equipped seminar halls, classrooms to support e-learning and a department library.

## Vision:

" To emerge as the centre for Academic Eminence in the field of Information Technology through innovative learning practices "

## Mission:

- To provide good teaching and learning environment for quality education in the field of Information Technology.
- To propagate Lifelong Learning.
- To impart the right proportion of knowledge, attitudes and ethics in students to enable them take up positions of responsibility in the society and make significant contributions.



# EDITORS

SPARK'22

## Faculty Editors :

**Dr.V.SURESH KUMAR (Professor)**

**Ms.J.MANJU (Assistant Professor)**

## Student Editors :



**THARUN M**  
**III Year**



**KARAN M**  
**III Year**



**ROHIT KUMAR V**  
**III Year**



**DEVAKI S**  
**III Year**



# EXPLORING THALAPATHI

**T**halapathi is a critically acclaimed Indian Tamil-language film that was released in 1991. Directed by the renowned filmmaker Mani Ratnam,

Thalapathi was a major commercial and critical success, garnering praise for its nuanced performances, stunning visuals, and thought-provoking themes.

The film follows the story of two friends, Surya and Devaraj, who become gangsters and end up on opposite sides of a power struggle in the criminal underworld. The film is loosely based on the epic Indian poem, the Mahabharata, and features many of the same themes and characters as the poem.



**BALAJI K**  
**IV YEAR**



Image courtesy: Vijay Sivadoss

One of the key reasons for Thalapathi's critical success is the exceptional performances of the cast. The film features two of the biggest stars in Indian cinema, Rajinikanth and Mammooty, who deliver powerful performances that are both nuanced and captivating. Rajinikanth, in particular, delivers one of his most memorable performances in the film, portraying the character of Surya with a combination of charm, vulnerability, and ferocity.

Another factor that contributed to the film's success is its stunning visuals. Mani Ratnam, who is known for his meticulous attention to detail, creates a rich and immersive world in Thalapathi, with vividly realized characters and environments.

The film features several iconic scenes that are now considered classics of Tamil cinema, including the iconic "Kattu Kuyilu" song sequence, which showcases the beauty and majesty of the Tamil landscape. Thalapathi also explores several thought-provoking themes, including the nature of power and the corrupting influence of violence.

The film asks important questions about the morality of violence and the extent to which it can be justified in the pursuit of power. These themes are closely tied to the Mahabharata, which also deals with issues of power and violence in a complex and nuanced way. The film's connection to the Mahabharata is evident in several ways. For example, the character of Surya is based on the character of Karna from the Mahabharata, who is known for his loyalty and strength but is ultimately betrayed by those around him. Similarly, the character of Devaraj is based on the character of Duryodhana, who is portrayed as a ruthless and power-hungry king. The film also features several references to the Mahabharata, including a scene in which Surya recites a poem from the epic poem.

In conclusion, Thalapathi is a cinematic masterpiece that has had a lasting impact on Indian cinema. The film's critical success can be attributed to its exceptional performances, stunning visuals, and thought-provoking themes. Its connection to the Mahabharata adds an extra layer of depth and complexity to the film, making it a rich and rewarding viewing experience for audiences. Even today, over 30 years after its release, Thalapathi remains a timeless classic that continues to captivate and inspire audiences around the world.

# ELON MUSK'S NEURALINK

Neuralink is a neurotechnology company co-founded by Musk along with a team of scientists and engineers in 2016 to build direct communication channels between the brain and computers. Neuralink aims to help people with paralysis communicate by allowing them to remotely control devices using brain activity. Neuralink tests their devices by surgically implanting them in the brains of live monkeys, pigs and other animals. Neuralink's methods have been criticized by groups such as PETA.



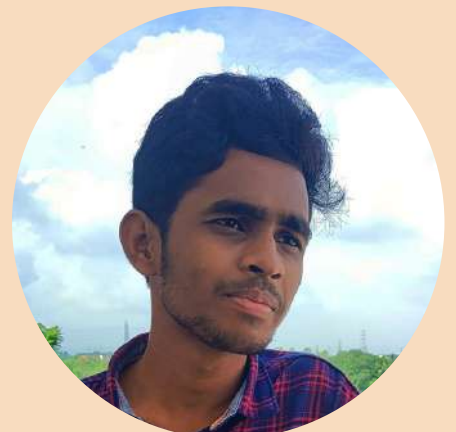
Neuralink received FDA approval for human clinical trials in May 2023. The FDA had previously rejected a 2022 application to pursue human clinical trials citing "major safety concerns involving the device's lithium battery; the potential for the implant's tiny wires to migrate to other areas of the brain; and questions over whether and how the device can be removed without damaging brain tissue."

On September 19, 2023, Neuralink said on Tuesday it has received approval from an independent review board to begin recruitment for the first human trial of its brain implant for paralysis patients. Those with paralysis due to cervical spinal cord injury or amyotrophic lateral sclerosis may qualify for the study, it said, but did not reveal how many participants would be enrolled in the trial, which will take about six years to complete.

The goal of Neuralink is to create brain-computer interfaces (BCIs) that will allow humans to communicate with each other telepathically over long distances without using any devices such as cell phones or computers.

This technology has many benefits such as helping paraplegics regain mobility through robotic prosthetics controlled by electrical signals sent from their brains. The project is still in its infancy, but it has already attracted a lot of attention from investors and potential customers.

If Neuralink succeeds in developing this technology, it will have an incredible impact on our lives and society as a whole. On the other hand, there are many risks associated with this project which need to be carefully considered before any implementation takes place.



**VARUN KAMESH V**  
II YEAR

# Bucket List Spots

Places to visit before you die ! Hodophiles, you don't wanna miss this !

**1. Longwood Gardens, Pennsylvania, USA.** The most magical place on earth you will get to experience a real life fairy tale gardens. tree houses, hidden rooms and much more. A perfect place to live out your fantasies.

**2. Moroccan riad ,** If you go to Morocco , you must stay in a riad. Riads are traditional moroccan houses with inner courtyards and gardens . Riads were homes to wealthy moroccan families in the past .

**3. The Belle Epoque, Switzerland -**It is a part of the Golden pass result in Switzerland . A specialized train that takes you on the past of the part of the journey from Montreux to Zweisimmen. If you are looking for a fancy train journey luxuriating in 1930's style & elegance , the this is the right choice .

**4. Jatiluwih Rice Terrace , Bali, Indonesia -** A haven for photographers and those who want to explore the local culter, this place ought to be on your radar.

**5. The Diamond House , The Bahamas -** A beach side dream mansion that embodies every things there is to love about clean , modern yet boasts all the amenities of a luxurious resort.

**6. The color Factory, NYC , US -** An interactive art exhibit , Gives opportunity to experience color in different ways. Rooms for photo booth at every corner of the exhibit and much more .



**PARTHASARATHI P**  
III YEAR



# IS TIME AN ILLUSION ?

**The distinction between the past, present and future is only a stubbornly persistent illusion.**

Time is a concept that has fascinated humans for centuries. We have developed ways to measure it, chart it, and live by it. But what if time, as we understand it, is just an illusion? What if the fourth dimension holds the key to understanding time and our place in the universe?

According to Einstein's theory of relativity, time is not a separate entity but rather a component of the fourth dimension, just like height, width, and depth. This means that time is not linear but rather fluid, and it can be affected by gravity and other forces.

This raises the question of whether time is a human construct or a fundamental aspect of the universe. Is it something that we have invented to make sense of the world around us, or is it a universal truth that we have yet to fully understand?

Many scientists believe that time travel is possible, and they base their theories on the idea that time is not fixed but rather a variable that can be manipulated. For example, if we could travel close to the speed of light, we could experience time differently from those on Earth, and we could effectively travel into the future.

**But What if Time is just an illusion, what does that mean for our Perception of Reality?**

It means that our experience of time is subjective and that it may not exist in the way that we think it does. Our understanding of the past, present, and future may be flawed, and we may be limited by our perception of time.

As we continue to explore the mysteries of the universe, it is becoming increasingly clear that time is not as simple as we once believed. It is a complex and elusive concept that requires us to think beyond our current understanding of the world.

In conclusion, time is an illusion, and it is the fourth dimension. Our perception of time is subjective, and we may be limited by our understanding of it. But by exploring the mysteries of the universe, we can continue to expand our understanding of time and its place in our lives. Who knows what new discoveries and technologies we will uncover as we continue to explore this fascinating concept



**SABARISH K**  
III YEAR



# SCIENCE AND NATURE.

IT is undeniable that the attitude towards Nature which inspired the author of NATURE's motto, is implicitly repudiated by many of its readers. For that spiritual intimacy between Nature and man, which formed the substance of Wordsworth's poetry, is questioned and even rejected by a large body of investigators. To them Nature is the sphere of essentially impersonal energy and law, which are either absolutely indifferent or actively hostile to human ideals. Huxley, for example, regarded the 'cosmic process' as everywhere antithetic to 'social progress,' thus unconsciously destroying the continuity of evolution just where it becomes of supreme value to humanity; and in precisely the same spirit Mr. Bertrand Russell foresees the ultimate extinction, by natural agencies, of everything for which he himself byssus strive.

The validity of such a viewpoint is plainly a matter of the highest scientific importance. For since science is the investigation of Nature, any interpretation of Nature must reflect itself in the interpretation of science itself. Conversely, the implications of science must illuminate the character of Nature so that quite apart from that fatal breach of evolutionary continuity postulated by Huxley, both the content and the expansion of modern science yield ample material for controverting his conclusion. From the strictly psychological viewpoint, all functions of the human mind are fully as natural as those of the brain. It follows, therefore, that reason, logic, and science are just as natural as the cerebral processes which sustain them; and even if any of these are 'emergent' still this involves no essential loss of continuity.

Thus Nature is not only the object of science, but also the sole and primal source of science and this, still further, not in any merely passive nor indifferent way, but dynamically. For it matters not whether man's intellect is the result of heritable acquired characteristics or of natural selection, since in both respects alike it is the culmination of the age-long interplay of Nature's own agencies. Reason, then, is in no degree foreign to Nature; Nature therefore cannot be foreign, much less hostile, to reason and all that reason involves to science, art, and morals. Only thus, in fact, can NATURE's motto be accepted in anything beyond a purely metaphorical sense.

Turning next to the specific content of science, it is clear that the logic of science reflects an order of Nature. This remains true even if we regard scientific principles as mere formulæ which enable man to utilise and control Nature; the sole alternative being the abdication of thought in favour of Bergsonian intuition, which is

plainly suicidal so far as science itself is concerned. The truth surely is that science yields an insight, slowly growing in clarity and coherence, into the structure of Nature alike on its physical, vital, and psychical levels. To what degree these are continuous with one another is an important, but here subordinate, problem, since it cannot affect the conclusion that Nature, not partially but throughout its whole extent—from electron to galaxy, from space-time to Shakespeare—is coterminous both with human reason and, so far as man dominates Nature, with human purpose.



**ANNAMALAI G**

**II YEAR**

# RATAN TATA'S OTHER FACE

The TATAs were the first to establish a steel mill in India, a power company in India, five-star hospitality in India, and an IT service company in India. Ratan Tata rejected a job opportunity from IBM. Instead, he joined his family business by starting on the shop floor of Tata Steel.

He is the main success of Tata motors and other sectors of Tata. He is a kind hearted man. He always donate a "LOT" of money". Recently he stoped Tata Steel and car manufacturing because there was lack of oxygen in india.



He once admitted that while he was working in Los Angeles, there was a time when he fell in love. But because of the 1962 Indo-China War, the girl's parents were opposed to sending her to India.

He is a great person who loves reading books. His favourite book preference is "THE ART OF RACING IN THE RAIN" by GARTH STEIN. This 2008 novel combines Tata's two great loves - dogs and cars. His passion for cars and affection for the canine community are well documented facts. The book, narrated from a dog's perspective, follows the life of his owner Denny Swift, a race car driver, with the dog's desire to be reincarnated as a human being, forming the spine of the story. Ratan tata is a great lover towards pet. Since the days of Jamsetji Tata, the Bombay House, the Headquarters of Tata Sons has a tradition of letting stray dogs in during rains. After its recent renovation, the Bombay house now has a kennel for stray dogs. This kennel is equipped with toys, play area, water and food. Continuing the tradition, Ratan Tata has an extreme love for these canines. He has two pet dogs that he takes care so fondly namely Tito and Maximus. He used to kind to pets and humans. This character in him was my most desirable because no money made him get any head weight instead he used all his money for goodness to the environment. He is very humble even to the humans. He supports the talent of every individual instead supporting the talent of rich money. Valuing humans was the greatest character which inspired me.

There are many things that if have to relive may be I will do it another way but I would not like to look back and think what I have not been able to

-RATAN TATA



VEDIYAPPAN T

II YEAR

# BADMINTON PLAYER

Being a national badminton player has been a transformative and exhilarating journey that has shaped not only my physical abilities but also my character. From the early days of gripping a racket to the electrifying moments on the national stage, this experience has left an indelible mark on my life. My tryst with badminton began innocently enough, as a child with a passion for sports. Little did I know that the swift movements on the court and the rhythmic sound of shuttlecocks meeting strings would become the defining soundtrack of my life. The initial training days were filled with excitement and challenges, laying the foundation for the years to come. Becoming a national-level player demanded more than just talent—it required discipline, dedication, and a rigorous training regimen. Daily sessions were a combination of physical conditioning, technical drills, and strategic gameplay analysis. The sweat and toil in the training halls were the crucible where my skills were honed, and my mental toughness was forged. Competing at the national level meant facing opponents who were not only physically skilled but also mentally resilient. The psychological aspect of the game became as crucial as the physical prowess. Overcoming the pressure of competition, dealing with defeats, and bouncing back stronger after setbacks became valuable life lessons that extended beyond the badminton court. The pinnacle of my journey was undoubtedly the national competitions that showcased the culmination of years of hard work. Stepping onto the court with the national jersey felt like a validation of every drop of sweat shed in training. The cheering crowd, the nerves before a match, and the sweet taste of victory were moments etched in my memory forever. The journey was not without its challenges.

Injuries, tough losses, and the constant pressure to perform at the highest level tested my resilience. However, each obstacle became an opportunity for growth. Learning to adapt, staying motivated during setbacks, and continuously evolving as a player were integral aspects of the journey.



**KARTHIKEGAYAN R**  
III YEAR



# ILLUMINATI

THE SECRETE SOCIETY

The Illuminati is a secret society that is believed by some to have existed for centuries, and which is said to wield significant influence over world events. However, it's important to note that the existence of the Illuminati is not supported by any credible evidence and is considered to be a conspiracy theory by most people.



The Illuminati is often associated with symbols such as the all-seeing eye, the pyramid, and the number 666, which are said to be used by the group to secretly communicate and to convey hidden meanings. The alleged goals of the Illuminati include the establishment of a New World Order, a global government controlled by a small group of elite individuals. Many conspiracy theories claim that the Illuminati is a secret society composed of the world's most powerful and influential people, including politicians, bankers, and business leaders. They meet once a year in the BOHEMIAN forest.

The original Illuminati was a secret society founded in Bavaria in 1776 by Adam Weishaupt, a professor of law. It was intended to be a group of free-thinking intellectuals who would work to promote rationalism and oppose religious influence in society. However, it was banned by the Bavarian government in 1785, and it is believed that the society was dissolved soon after.



JAYABALAJI J

II YEAR

# HEALTH CARE AT YOUR FINGER TIPS.

Health care access, affordability, and quality are problems all around the world. There are well-established disparities based on income and geography, and the high costs of health care present affordability challenges for millions of people. A large number of individuals do not receive the quality care that they need. Mobile technology offers ways to help face these challenges. Through mobile health applications, sensors, medical devices, and remote patient monitoring products, there are avenues through which health care delivery can be improved. These technologies can help lower costs by facilitating the delivery of care, and connecting people to their health care providers. Applications allow both patients and providers to have access to reference materials, lab tests, and medical records using mobile devices. Complex mobile health applications help in areas such as training for health care workers, the management of chronic disease, and monitoring of critical health indicators. They enable easy access to tools like calorie counters, prescription reminders, appointment notices, medical references, and physician or hospital locators. These applications empower patients and health providers proactively to address medical conditions, through near real-time monitoring and treatment, no matter the location of the patient or health provider.

The available health apps can be divided into three categories. The first type lets people keep a record of their health, like the calorie counting apps. The second are educational apps, which keep one updated with latest information. The third category consists of apps that are used for health monitoring. The apps use standard features of a phone like camera, microphone which are not designed for health monitoring.

Some innovations in mobile health care:

**Instant heart rate :**

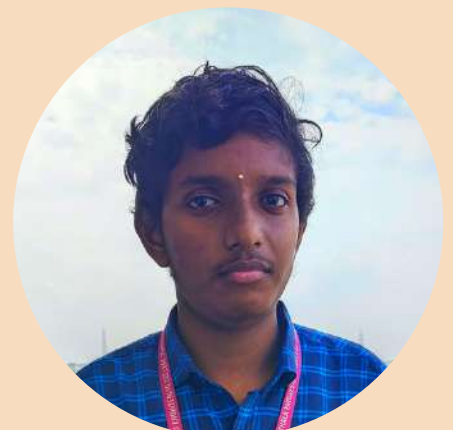
Put a finger on the camera lens of the smart phone for 10 seconds, and your heart rate will start flashing on the screen in real time. The camera tracks changes in the colour of the skin with every heart beat (surge in capillary blood flow). The principle behind this app is similar to that used in medical pulse oximeter. A pulse oximeter is clipped to the finger of the patient and measures oxygen level in one's blood.

**Istethoscope :**

Hold the phone against the chest. The microphone picks up sounds from the heart. The sound is amplified by an inbuilt amplifier and then transmitted to earphones.

**Sleep Cycle :**

Put the phone next to your pillow. It monitors your sleep patterns based on the movements you make. It shows in graphs your sleep patterns through the night: deep sleep, light sleep or dreaming phase. Depending on the alarm you set, it also wakes you at the most appropriate time period. Suppose you set an alarm at 6:45 am. The app will figure out the best time between 6:15 and 6:45 to wake you.



**MRIDHUL KRISHNA R**  
**II YEAR**

# POEM ABOUT CSK

The yellows roar, a burning flame,  
Chennai Super Kings, a force to tame,  
Dhoni, their captain, a leader so calm,  
Their skills on the pitch, a fiery bomb.

Their batting line-up, a fearsome sight, Raina,  
Du Plessis, Watson, might after might,  
Their hits, a stroke of genius,  
Their power and grace, a sight so wondrous.

Their spin attack, a web so tight,  
Tahir, Jadeja, Ashwin, venom to ignite,  
Their tricks, a mystery, so hard to unravel,  
Their spin, a magic, impossible to tackle.

Their fans, they scream, with passion untold,  
Their support never fades, from young to old,  
The stadium alive, with their energy,  
Chennai Super Kings, their hearts in synergy.

So let us rise, and give them a roar,  
For the Chennai Super Kings, our hearts they adore,  
A team of champions, with fire in their veins,  
A cricketing dynasty, forever in blue flames.

Their rivalry with Mumbai, a tale so fierce,  
A clash of titans, the fans, they pierce,  
Their battles, a story of pride,  
The yellows and blues, an endless ride.

Their journey, a saga of grit and power,  
Their fans, forever loyal, their cheers louder,  
For Chennai Super Kings, a team to behold,  
Their spirit unbreakable, their story untold.



LOGITHA B  
III YEAR



# POEM ABOUT Singaara Chennai

Singaara Chennai, a city of grace,  
A jewel of the South, with a vibrant pace.  
A metropolis steeped in history,  
Where modernity blends with ancient mystery.

The Marina beach, a golden shore,  
Stretches wide, forevermore.  
Where waves caress the sandy land,  
And memories are made, hand in hand.

From Royapettah to Parry's Corner,  
From Triplicane to T. Nagar's fervor.  
People of all faiths, standing as one,  
In Chennai, harmony is second to none.

The aroma of filter coffee in the air,  
Savory dosas, a culinary affair.  
From street-side stalls to fine cuisine,  
Singaara Chennai, a foodie's dream.

The warmth of the people, their friendly smile,  
Welcoming strangers, going the extra mile.  
A city that embraces diversity,  
With open arms and boundless generosity.

Cricket's in the air, a fever that's high,  
In Chennai's heart, it'll never die.  
CSK's beloved, the team of dreams,  
With loyal fans, whose passion gleams.

Singaara Chennai, a city so grand,  
With its heritage, culture, and soulful sand.  
A place that captures hearts and minds,  
A gem of a city, one of its kind.



ARCHANA S  
IV YEAR

# DID YOU KNOW ?

**Did you know that the longest recorded human lifespan is 122 years and 164 days?**

The longest recorded human lifespan of 122 years and 164 days is a remarkable achievement, demonstrating the potential of the human body for longevity. However, factors such as genetics, lifestyle, and environment play a crucial role in determining lifespan, and extreme longevity is very rare.

**Did you know that the human eye can distinguish between around 10 million different colors?**

The human eye's ability to distinguish between around 10 million different colors is due to specialized cells called cones in the retina that detect different wavelengths of light. This allows us to see a vast spectrum of colors, which is crucial for distinguishing between objects and appreciating the beauty of nature and art.

**Did you know that a single bolt of lightning can contain enough energy to power a 100w bulb for more than 3 months?**

This fact is quite amazing as it highlights the immense power that can be harnessed from natural phenomena. A single bolt of lightning can carry enough energy to power a 100-watt light bulb for over three months, making it one of the most potent forms of natural energy on the planet.

**Did you know that honey never spoils and has been found in ancient Egyptian tombs ?**

Yes, it is true that honey is a unique food that never spoils and has been discovered in ancient Egyptian tombs that are thousands of years old, demonstrating the remarkable preservation properties of this natural sweetener.



DEVADHARSHINI S R  
IV YEAR

# கணக்கு விடுகதைகள்

1. எட்டு, எட்டுகளை கொண்டு 1000-தை பெறுவது எப்படி?  
விடை:  $888 + 88 + 8 + 8 + 8 = 1000$

2. மூன்று மூன்றுகளை கொண்டு 27-ஐ பெறுவது எப்படி?  
விடை:  $3 * 3 * 3 = 27$

3. ஐந்து 9களை எப்படி வேண்டுமானாலும் பயன்படுத்தலாம், ஆனால் விடை 10 என வர வேண்டும் அது எப்படி?  
விடை: 99-ஐ 99-ஆல் வகுத்து 9-ல் கூட்டி வர விடை 10 வரும்

4. 7 ஒன்றுகளை கொண்டு 25 -ஐ பெறுவது எப்படி?  
விடை:  $11 + 11 + 1 + 1 + 1 = 25$

5. ஒருவர் கடற்கரை வழியே சென்று கொண்டிருந்தார் அவர் செல்லும் போது அவரின் வலது பக்கம் சூரியன் மறைந்தது அப்போது அவர் சென்ற திசை என்ன?  
விடை: தெற்கு திசை.

6. ஒரு வரிக்குதிரை தண்ணீர் குடிக்க சென்றது. அங்கே 5 யானைகளும், 5 குரங்குகளும் இருந்தன. அப்படியானால் மொத்தம் எத்தனை மிருகம் ஆற்றுக்கு சென்றன.  
விடை: வரிக்குதிரை மட்டும் தான் ஆற்றுக்கு சென்றது. மற்ற மிருங்கங்கள் அங்கே தான் இருந்தன.



SOUNDARYA B  
IV YEAR



# DOODLES



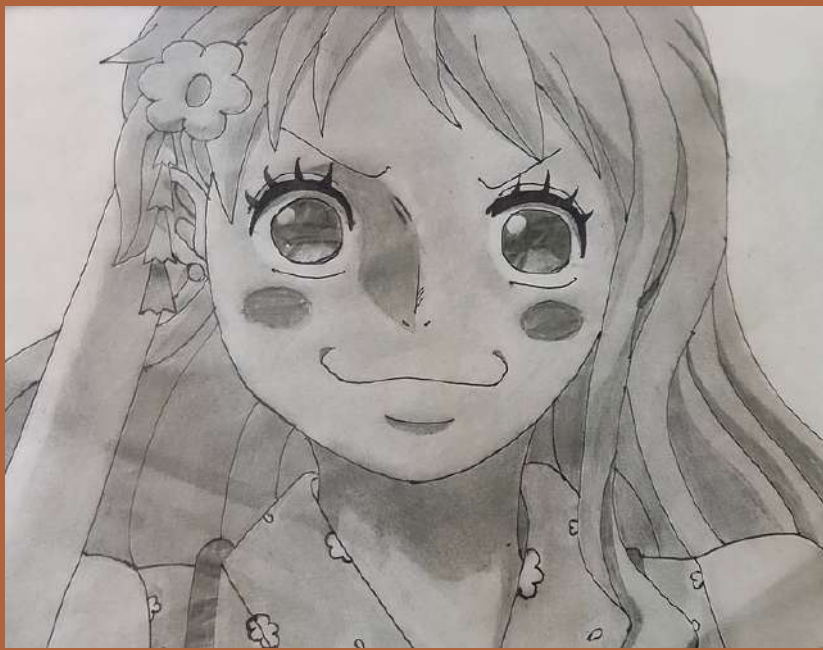
RAGAVENDRA D  
III YEAR



DEEPA V  
IV YEAR



# DOODLES



BIJU WILLSMITH A  
IV YEAR





# ALUMNI CORNER

Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College played a vital role in sculpting us to become a system fit in the industry. Being an alumnus of this institution is so proud for me and many of us. Being from the environment, campus, faculties, management all were too good.

It all began from June 2018 while I selected the college in my 4th round of TNEA Counselling process. At first, I felt regretted for choosing the institution without knowing properly about their records, I was proven wrong after joining here. Stepped firstly into the campus on September 2018, seeing the new faces didn't knew these are the people going to travel along with through my next phase of life. Even during First year we were given many opportunities by conducting many events also this helped me and many of us to showcase our talents right from mini-project competition, debates, etc.

The faculties here are too good and cooperative for the students. Entered the department of Information Technology from 2nd year. All the faculties, HoD were friendly and gave attention to all of us. We did have a faculty mentor for every 10 students. The department helped us in all aspects right from education and sharing our problems with them. The support we got from them were beyond the expectation. There is saying that it doesn't matter where you stay, it does matter with whom you stay. Here I got all the best. The campus is huge spread and with the right people it felt heaven for us. The batchmates here are too great with similar ambitions running across so it gave a great connect amongst us.

In terms of campus placement, we had 90% of my classmates placed in MNC's starting from package 3LPA to 8LPA. There had been an immense effort put by the staffs, placement committee and from the students. Our department has arranged many training sessions for us to recall the concept in technical side and mock interviews was also arranged from their side which was very helpful for us to face the actual interview.

Last but not the least, it's also because of the guidance from our Hod and faculty members we are where we stand currently. On behalf of my batchmates I take this opportunity to thank our Hod, faculty members, non-teaching staffs, seniors and juniors.



**GOWTHAM S**  
**ALUMNI**