

THE GENESIS

15 Feb, 2022



TECH-
VERSE

AI-
DYNAMICS

CYBER-
SPACE

THE
COSMOS

STOCK N'
CRYPTO

BOUNDLESS
CREATIONS

The Official eNewsletter of GGITS



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WEB 3.0: THE NEW INTERNET

The official newsletter of The Genesis-GGITS



With the release of the iPhone in 2007, mobile internet access significantly expanded both the user-base and the usage of the Web. We went from dialling up to the internet a few hours a day at home on our desktops to an "always connected" state — the web browser, mobile apps, and personal notifications were now in everyone's pocket. This was the wave of Web 2.0.

Referenced from:

Web 3.0 is a next-gen web technology that focuses heavily on machine learning (ML) and artificial intelligence (AI) and is based on Blockchain Technology. In Web 3.0, computers will be able to understand the information in the same way that humans do, thanks to Web concepts and natural language processing technologies. During this phase, the Internet will become more intelligent and could process information almost like a human brain using the strength of AI systems. Machine learning, a branch of artificial intelligence (AI) that uses data and algorithms to mimic how humans learn, will also be used in Web 3.0. These capabilities will allow computers to produce faster and more relevant results in a variety of fields such as drug development and new materials.

Written by:-
Nandan Patkar
AIML-1

How web 3.0 will work?

Instead of using one big centralized server (like google), there will be many different decentralized servers all over the world. Each one will be run by its community of users. When you want to search for something, your search will go to all of these servers. They will each process your search and only show the best to you. Now you might think that's a lot of information. But that's where AI comes in to better organize it all.

Did you know ?

With Web 3.0, you won't need an account for each social platform, with just one account you could seamlessly move between platforms.

INTEL 12TH GEN.

The Official Newsletter of The Genesis-GGITS

While 2022 has just started and Meta has already hit a significant downfall, 2022 can be the best year for tech enthusiasts. Intel released its 12th Generation Alder Lake processor chips officially back on November 4th 2021. But they have finally released a whole new lineup of processors and CPUs for laptops sometime back in January 2022. While the 12th Gen i9 & i7 processors are best suited for gaming, there are also available i5 & i3 processors that are cheaper than the latter and more suited for light purposes.

Focusing back on 12th Gen Intel Processors, there are significant differences between the 11th Gen Rocket Lake & 12th Gen Alder Lake Processors. For the first time, Intel is switching to a 10nm SuperFin manufacturing process from its older 14nm++ manufacturing process. The 10nm processors will be faster and more power-efficient than the 14nm ones. The major difference in the SuperFin manufacturing technique is the usage of "SuperMIM" capacitors.

Intel has also adapted the big.LITTLE processor architecture style for the Alder Lake processors. The big.LITTLE hybrid processors are exceptionally fast, and Apple uses this architecture style for its M1 processors.

The reason why the big.LITTLE hybrid style processors are so efficient and fast lies in their build. Processors of big.LITTLE style comprises two cores in a single CPU:

1. The Performance cores (P-cores) are suitable for powering single-threaded performance and heavy applications. This core is the best fit for boosting games and other such programs.
2. The Efficient cores (E-cores) are more suited for boosting multi-thread usage. These cores are preferred for multi-tasking while the P-cores do heavier work. These cores reduce lag and interruptions.



The two cores cooperate and provide a superior speed and PC experience. The 12th Gen Intel processors use LGA 1700 sockets in the motherboard. The i9 & i7 processors can easily compete and prove faster than the AMD Ryzen 9 & Ryzen 7 processors. They are cheaper than the Ryzen processors also.

Did You Know?

Apple is the most valuable company in the world with \$2.5 trillion valuation.

Written by:
Udyan Saxena
CSE-03

Referenced From:

Hardware Unbox

SPACEX ROCKET CRASH

The Official Newsletter of The Genesis-GGITS

OUT-OF-CONTROL SPACEX ROCKET WILL CRASH ON THE MOON

After spending 7 years in space a rocket (Falcon 9) launched by ELON MUSK's space exploration company SpaceX is on course to crash into the Moon & explode. This crash will be so powerful that it will create a crater on the lunar surface. This rocket was launched in 2015 to put a NASA satellite into orbit. The satellite was known as the Deep Space Climate Observatory (DSCOVR) and was successfully deployed by the SpaceX rocket. After mission completion, the Falcon 9 rocket did not have enough fuel to return back to Earth so it instead remained in space . Since then, the second stage of the rocket, also referred to as a booster, has been floating around in chaotic orbit. In January 2022, the booster passed quite close to the Moon. Bill Gray(Astronomer) calculated the booster's collision course with the Moon. And he found that the Falcon 9 booster would crash into the Moon's far side near the equator on March 4, 2022. Gray appealed to the amateur astronomer community to observe the booster and their observations have also confirmed Gray's conclusions .The collision will occur at more than 9,000 km/h(5,500 mi/h).

This would help expand our existing knowledge about the geology of the Moon.Most of the rockets do not go so far from the Earth, SpaceX usually brings its rocket boosters back through the Earth's atmosphere, where they disintegrate over the ocean, while the first stage is recovered and reused. But there could be more unintentional crashes into the Moon in the future as several space programs have left more junk in orbit over the years.And the scenario can become problematic with increased traffic.It is estimated that over 170 million space objects are orbiting above our heads.Those also include tools and other things lost by the ISS, containers, and almost a ton of uranium.

The total mass of space objects in the Earth's orbit exceeds 9,600 tons.This makes it important to track the orbit of space junk to avoid catastrophic incidents.Space debris is indeed one of the most important problems that space agencies need to solve.And if no appropriate steps are taken now, this problem is going to get worse in the future.

Did You know?

In 2007, China deliberately destroyed one of their weather satellites to test a new weapon. That test contributed to over 3,000 pieces of space debris - the largest ever tracked

Written by:
Palak Jaiswal
AIML-1

Referenced from:

1. Hindustan Times.
2. You tube (channel - The Secrets of the Universe)



Cyber-attack brings down Vodafone

THE OFFICIAL NEWSLETTER OF THE GENESIS-GGITS



A spate of cyber-attacks is taking place in Portugal recently. A month ago country's largest media conglomerate Impresa, which owns newspaper Expresso and broadcaster SIC was down after being hit by a cyber-attack. Following the event on February 7, another major attack takes place, this time a telecom company.

A “deliberate and malicious” cyber-attack targeting Vodafone Portugal brings down 4G and 5G networks for customers and halted fixed voice, television, SMS, and digital answering services. Vodafone said it has seen “no evidence” that customer data has been accessed or compromised due to the attack. The attack affected millions of individuals, businesses, and public services, including ambulance services, fire departments, and hospitals, Vodafone Portugal CEO Mário Vaz said.

Services like 3G data and voice were restored on early Tuesday while 4G/5G services were still in maintenance. On 9 February, progress had been made on restoring fixed-line voice services, an important service for Vodafone’s business customers in particular. Vodafone also reported that it was working to restore customer support services, which continued to face “instability”. Expert says the frequency of these successful cyber-attacks may give rise to many more cyber-attacks. In progress, “the re-establishment of specific solutions for business customers is underway”, and “we have also increased the availability of more customer support service tools, including the restoration of part of the digital channels”, the official source continued.



Did You Know?

COVID-19, the US FBI reported a 300% increase in reported cybercrimes

Written by:

Faiz Ansari
CS-IOT

Referenced From:

Diversify Your Portfolio



The world of Finance is Changing at a dazzling pace. Cryptocurrencies, decentralized finance, and tokenized assets are disrupting the whole concept of investing—and who is putting their, money to work to build their future. RealT is at the forefront of the investment revolution with latest technology blockchain real estate. Tokenized real estate makes it easier to buy and sell real estate interest, adding liquidity to the market while increasing transparency and security. Its providing a value that has been crucial to investors since dawn of time: diversification.

Yes, DeFi changing the way we invest, but certain economic core concept remain consistent, the importance of diversification being foremost. Diversification is a technique that reduces risk by allocating investments across various financial instruments, industries, and other categories.

Why Diversify your portfolio?

--Diversification ensures that by not “putting all your eggs in one basket”, you will not be creating an unwanted risk to your capital. Diversifying your stock portfolio is important because it keeps any part of your investments assets from being too heavily weighted toward one company or sector.

The Pure Crypto Investors

RealT fractional real estate ownership is powered by the latest technology blockchain (which help RealT to analyze data and calculate the risk and return percentage easily), so naturally it has gained the attention of crypto investors. To the pure crypto investors diversification means holding different crypto currencies at a time, but in RealT it is not true. (Cryptocurrencies are typically speculative investments and the entire crypto market sometimes moves in concert based on major news, such as China cracking down on crypto miners.)

The Traditional Real Estate Investors

On the other end of the scale, traditional real estate investors are enthusiastic for RealT's real estate blockchain. These individuals typically hold no crypto but have exciting real estate investments, such as single-family homes and apartment buildings.

For this demographic, RealT provides two strong forms of diversification. First they can quickly and easily diversify their overall real estate holdings.(Instead of making one or two large real estate investments , they can harness the RealT platform to buy fractional ownership in a variety of properties in multiple cities.)

Furthermore, RealT's marketplace flies at the speed of light compared to traditional real estate investing. In a matter of days, a real estate investor can own tokens in multiple properties generating rent, and he or she can also sell those tokens back to reinvest in another location or if they require additional liquidity.

The Stocks and Bonds Investors.

A large group of investors exists around the world holding portfolios in traditional investments like shares of stock, ETFs, mutual funds, and bonds but who have ventured into real estate investing reach due to the capital required to purchase a property. Also, cryptocurrencies seems risky because they traditionally invested in fractional ownership, such as owning a tiny silver of a publicly traded company with every share they buy.

RealT Presents these traditional investors with a “two birds with one stone” approach to diversification.(“two birds with one stone”==achieving two different things by doing one action.) On the one hand, we are making real estate investing possible for the traditional investor unwilling to make a major investment in a single property. On the other, fractional real estate tokens allow individuals to diversify their portfolio with real estate and create passive investment opportunities at the same time.(while they are diversifying, they are also addingcrypto to their portfolio.)

Written by:

Shashank Shekhar Pandey
CSE-03

Referenced From
RealT.co

Did You Know? Meta shares fall over 25%, erasing \$200 billion off its value, on Thursday.

AZAADI KA AMRIT MAHOSTAV

Azadi Ka Amrit Mahotsav is an initiative of the Government of India to celebrate and commemorate 75 years of progressive India and the glorious history of its people, culture, and achievements.

Winners of Dancing Competition



Kanika & Ishita
GGITS CSE(DS)
1st Year



Vanshika Sengar -
GGITS CSE
3rd Year



Nidhi Upadhyay
GGITS CSE(IoT)
1st Year

Winners of Singing Competition



Ritika Singh
GGITS (EC)
4th Year



Ankush Gupta
GGITS CSE(IoT)
1st Year



Muskan Barman
GGITS (EC)
1st Year

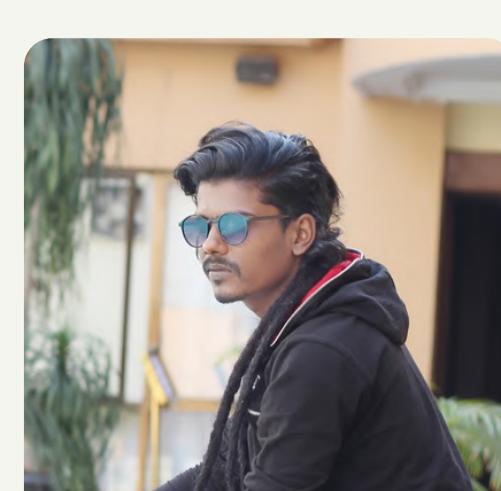
Azaadi Ka Amrit Mahostav Quiz Winners



Surbhi Raj Singh
GGITS CSE(AI ML)
1st Year



Shatakshi Chourasia -
Pharmacy
1st Year



Aniket Padit
GGCT (CIVIL)
4th Year

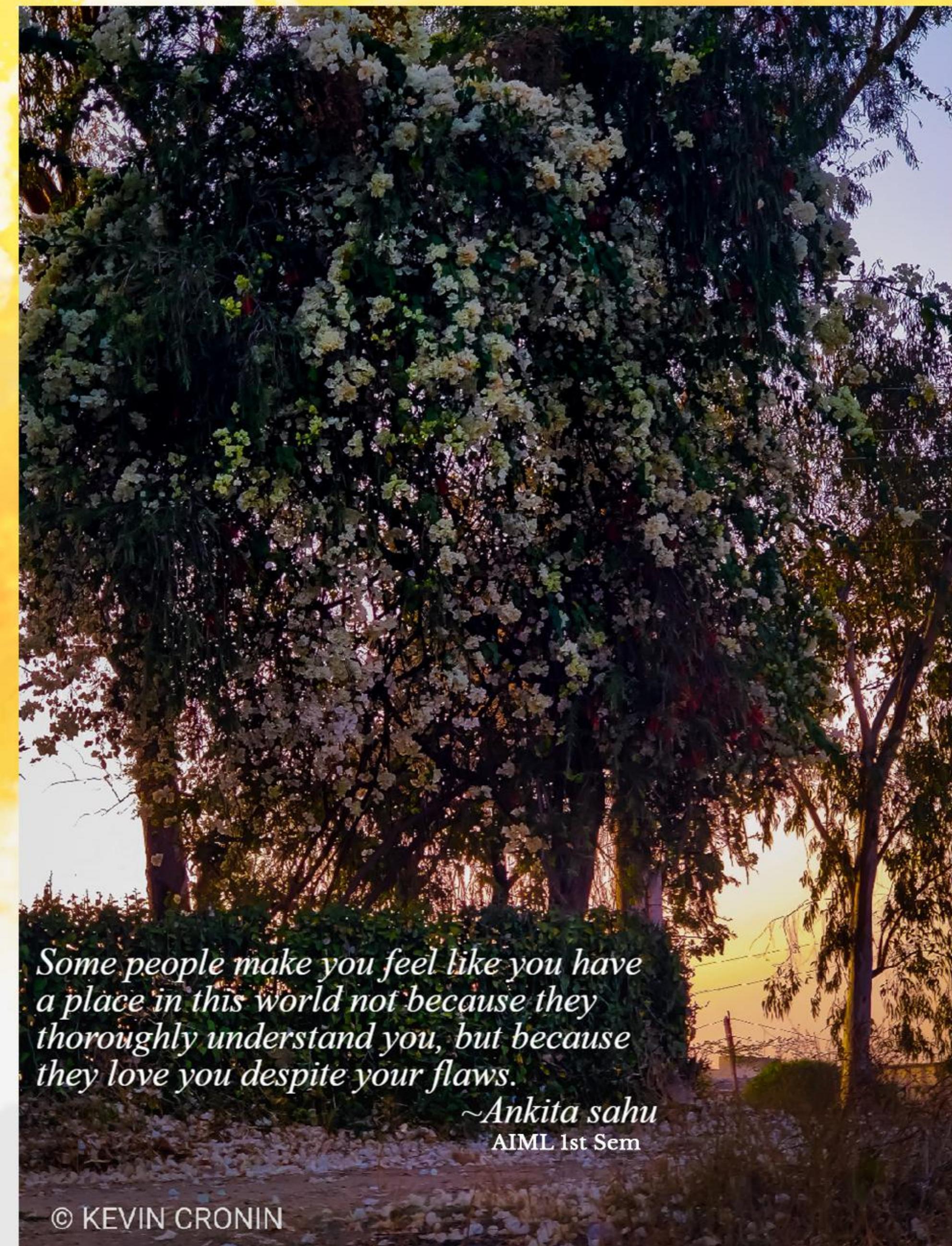
Organised by: Team Indigo GGITS

This Mahotsav is dedicated to the people of India who have not only been instrumental in bringing India thus far in its evolutionary journey but also hold within them the power and potential to enable Honourable Prime Minister Sh. Narendra Modi Ji's vision of activating India 2.0, fuelled by the spirit of Atmanirbhar Bharat.

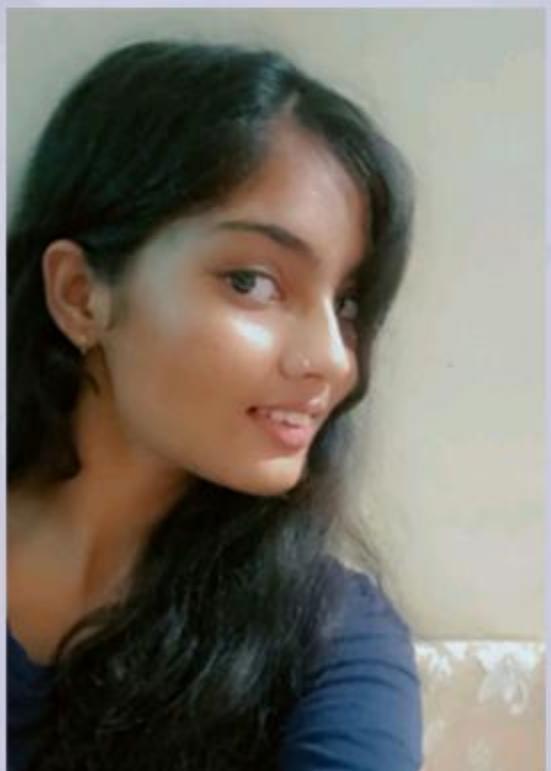
Team Indigo (college club) of Gyan Ganga Institute of Technology and Sciences has organized various events like quizzes, Singing competition, Dancing competition, Drama competition, and Painting competition on the occasion of Republic day.



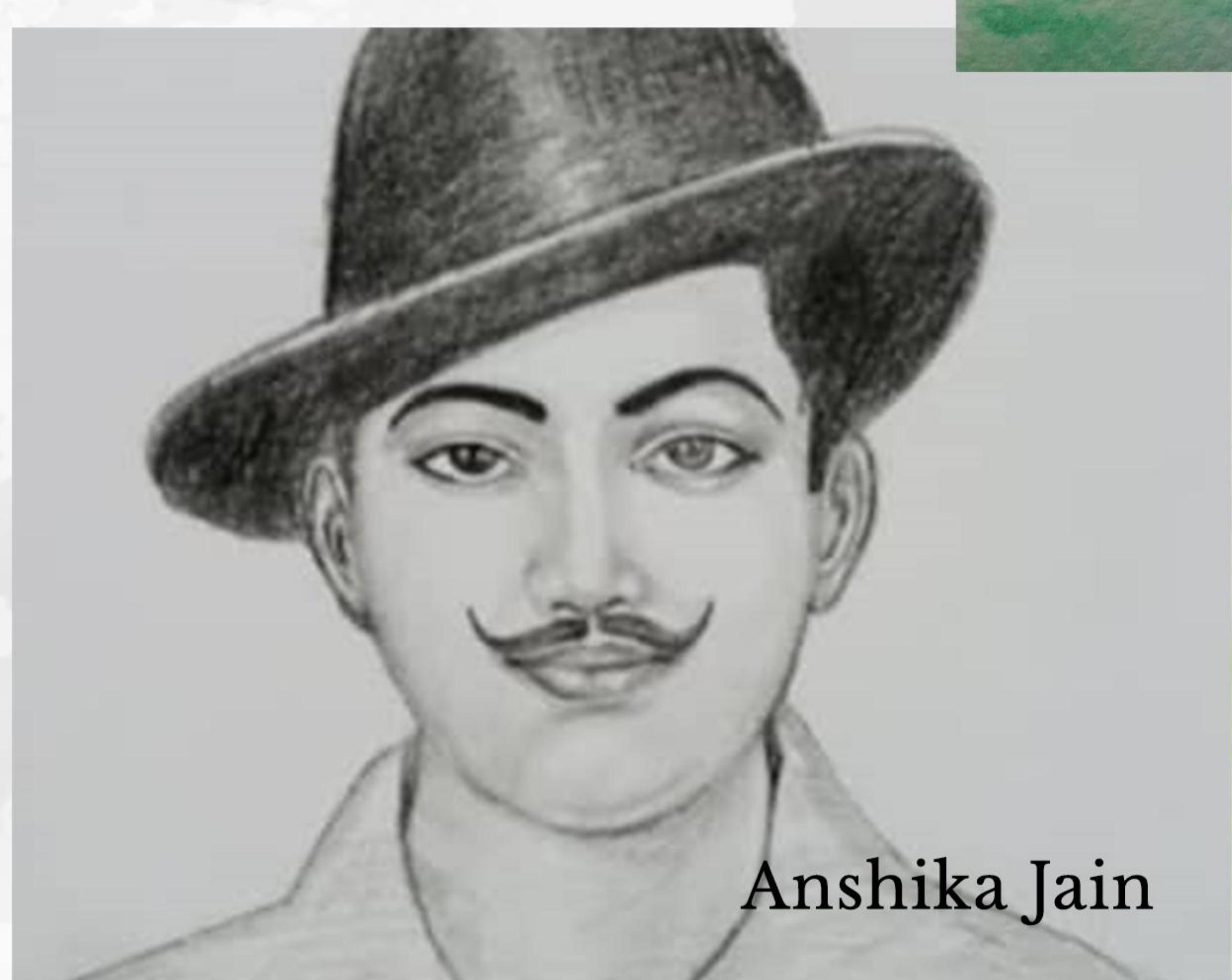
Boundless Creations



Rank 2



Anshika Jain
EX, 1st Year.



AZADI KA AMRIT MAHOTSAV
Art Contest Winners

Rank 1



Shreedeep Srivastava
CSDS, 2nd Year



किसी रोज़ मुझे भी मिल जाना ज़िंदगी कुछ सवालों के जवाब दे जाना ज़िंदगी मुझे भी हसना सिखा देना ज़िंदगी एन फासलो को दूर करना सिखा देना ज़िंदगी।

दे देना मेरे सपनों को नए आसमान ज़िंदगी
दे देना इन्हे नई उम्मीद ज़िंदगी
किसी रोज़ मुझे भी मिल जाना ज़िंदगी
मुझे भी मिल जाना ज़िंदगी।

-आदित्य मिश्र
AIML, 3rd Sem.

Rank 3

Shikha Gujral
EC, 3rd Year

Boundless Creations

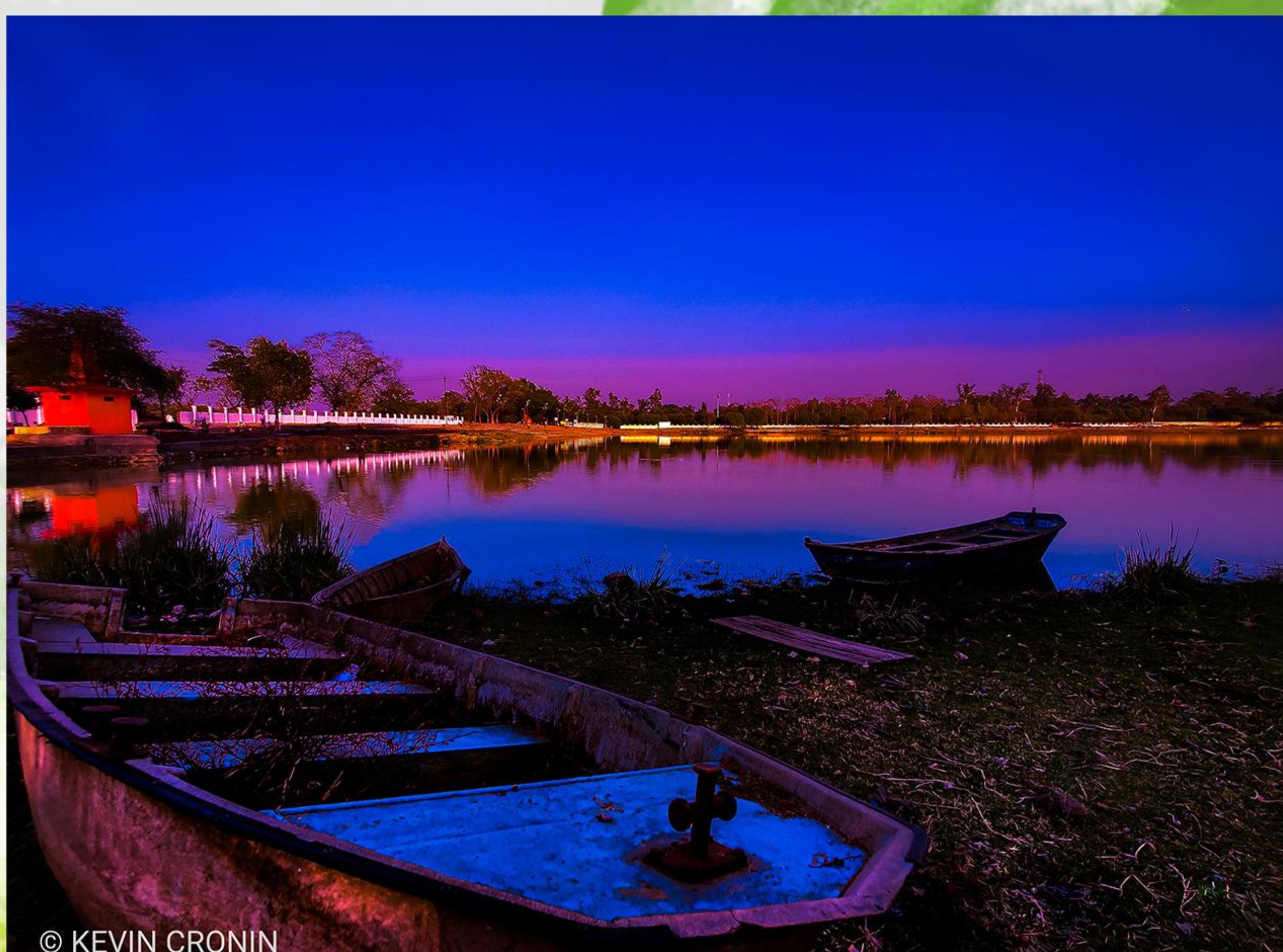
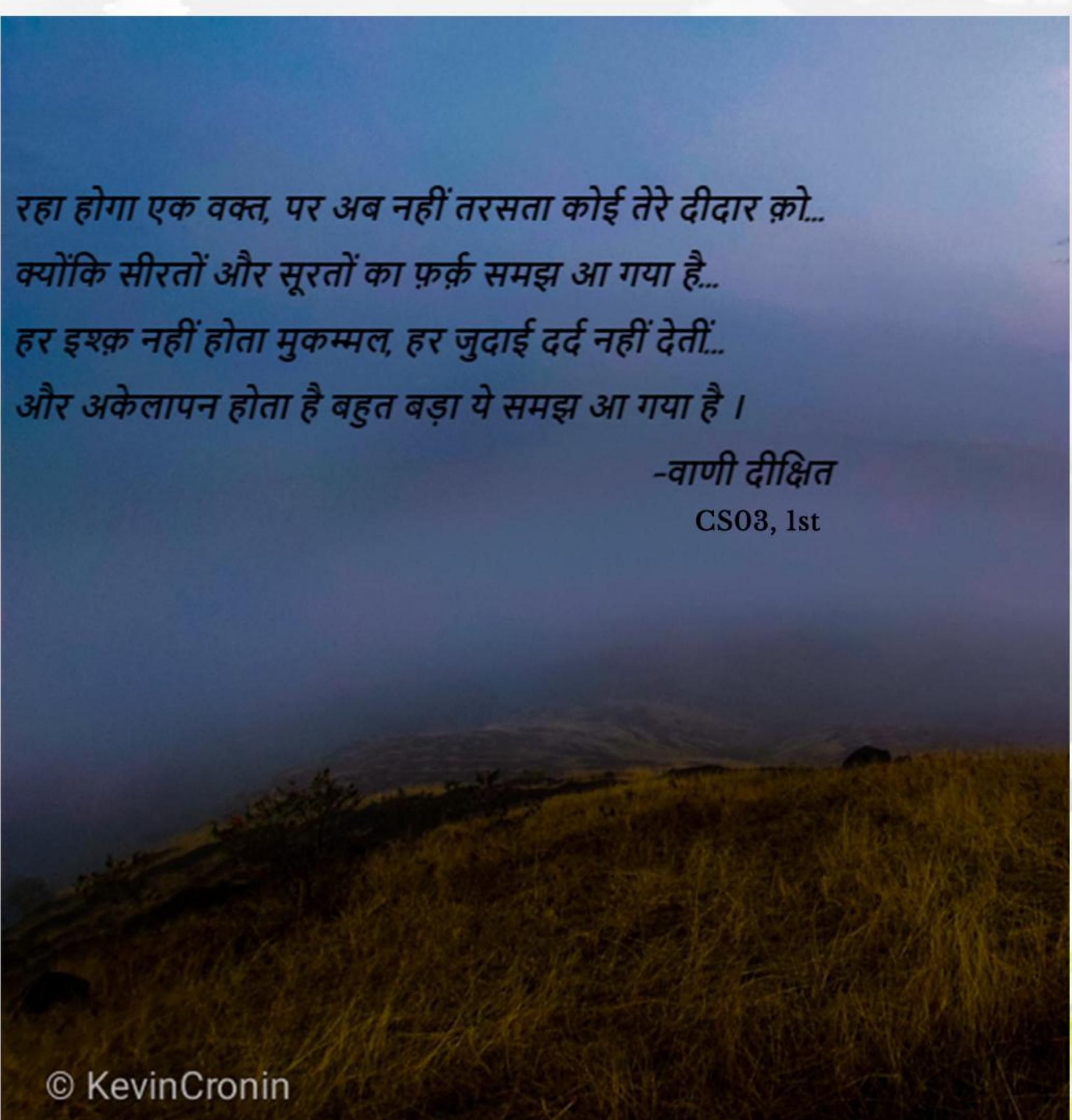


Photo courtesy- Harsh Wardhan Mourya
AIML 1st Sem



Thank You



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