



WEB3

The word "WEB3" is displayed in large, blue, block letters. The letters appear to be composed of glowing, horizontal lines or light streaks, giving them a dynamic and futuristic look. The background behind the text is a dark, textured surface that looks like a circuit board or a brick wall.

5TH Edition

PARADIGM

ANNUAL TECH MAGAZINE

2022



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GET TO KNOW US BETTER

OUR MISSION

CSI SFIT aims to lay a foundation for the refinement of technical inventiveness among young technocratic skills that will promote originality among budding engineers down the path for professional development.



ABOUT US

CSI SFIT since its inception year 2002, has proven to be a great source of knowledge by providing **hands-on technical training** and transforming students into competent professionals. In each academic, CSI SFIT conducts numerous **workshops, seminars, conferences, industry-academia interactions, competitions, student initiative programs and industrial visits** which prove to be a gateway to **technical expertise**.

FACULTY COORDINATOR



Expressions to inherent and nurtured qualities possessed are possible through oral and written means. The kind of world we live in needs to dwell upon these expressions in speech or through written material. The intention of the CSI SFIT committee to launch this magazine was to provide a platform for these expressions of CSI SFIT students. I feel proud to announce that CSI SFIT Committee is coming out with its third edition of the annual technical magazine- "PARADIGM". In science and philosophy, a "PARADIGM" is a distinct set of concepts or thought patterns, including theories, research methods, postulates, and standards for what constitutes legitimate contributions to a field. As the title means, the content of our magazine also includes reports of various activities conducted around the year, technical articles and project reports of the students. In today's world machines are replacing humans and performing tasks at much higher speed and accuracy in every domain of life.

WEB 3 and Machine Learning is becoming a big buzzword in the world of technology. Understanding the importance of this technology, CSI SFIT had organized various technical workshops this year to keep the students abreast with the techniques and

software used in the field of WEB 3 and Machine Learning. It gives me immense pleasure to present the third edition of CSI SFIT annual technical magazine with the theme WEB 3 and Machine Learning. This is one of the best platforms for our students to present their innovative project ideas using machine learning. Our magazine is a balanced collection of reports of technical activities conducted by CSI SFIT, articles, project reports, facts, quiz etc based on our theme. I also take this opportunity to thank our Director, Bro. Shantilal Kujur, Dr Sincy George (Principal), Dr Kevin Noronha (Dean, Academics) for their unwavering support and encouragement. I extend my heartfelt greetings to all participants, authors, report writers & students associated with this endeavour.

**Ms Amrita Mathur
(Faculty Coordinator)**



CSI SFIT TEAM OF 2021-22



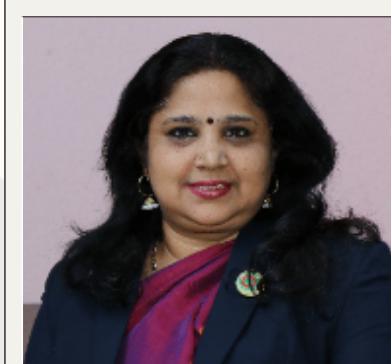
MAKE IT HAPPEN



FACULTY COORDINATORS



Ms. Amrita Mathur



Ms. Anuradha Srinivasaraghavan

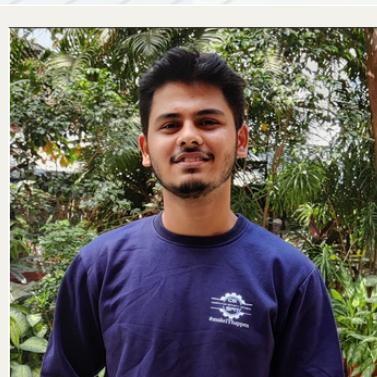
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Chairperson



Ekta Masrani
Vice-Chairperson



Harsh Daitkar
Gen. sec



Kaif Kohari
Treasurer

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Vedant Kadam
Tech Head



Vedant Mahajan
Exec



Anurag Yadav
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Allan Rodrigues
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Parbat Rajpurohit
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Deep Kotian
Creative Head



Sakshi Bhosle
Jt. Creative Head



Dhyanraj Vanniyar
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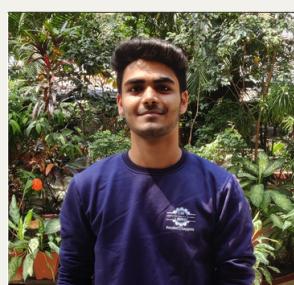
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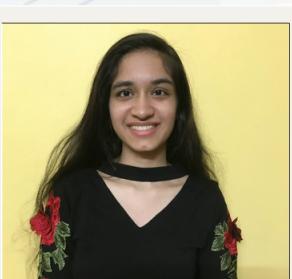
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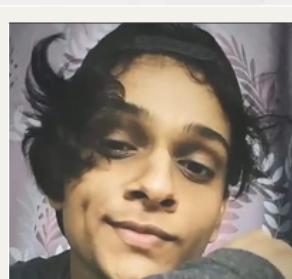
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Nathan Vaz
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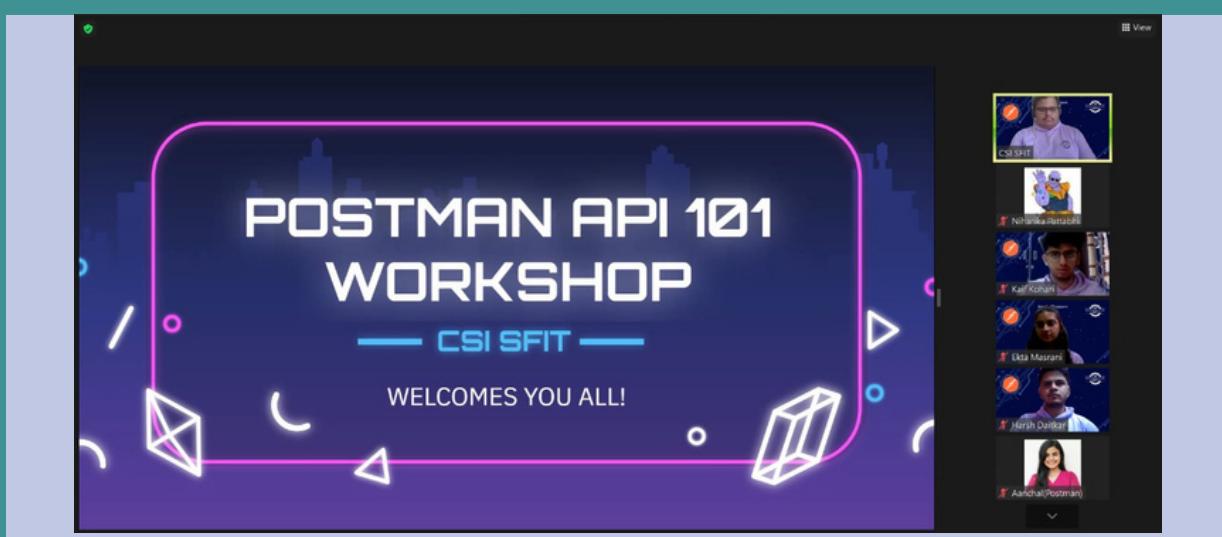
Postman API 101



A workshop on API 101 was organized by us which was taken by Ali Mustufa. The workshop garnered over 80+ attendees. The major objective of the session was to familiarize the attendees with applications of Postman in carrying out requests to APIs and cultivating interest in the same. We began with a warm Welcome by Ekta Masrani(Vice-Chairperson). Next our guest Ali Mustufa started with the session Introducing brief about the workshop.



Postman API 101



The Workshop explained following topics in details-

- What are APIs
- Servers & Clients
- Making HTTP requests to an API
- Understanding API responses
- Submitting data to APIs
- Using query parameters to refine requests
- Further Path:- APIs 102 and 103 with Postman Student Expert Certification.



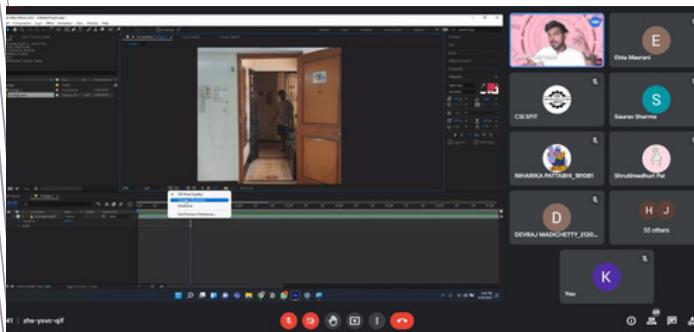
The session ended with a vote of thanks by Harsh Daitkar (General Secretary). The session was a huge success, as all the participants had shown keen interest in this upcoming technology and asked many questions about Postman, and its real-life applications. This made students interested and motivated to take up projects in the said domain. The response and feedback from the participants about the session was very good and as per the feedback, they would want to attend more sessions like this in future.

Lights, Camera,... Edit

An amazing workshop titled Lights, Camera,... Edit was organized by us on 29th Jan 2022.

Guest instructor for this workshop was Mr. Amey Karhade, an incredible VFX creator and Film maker.

The main objective of the workshop was to familiarize students with the software Adobe After Effects. We closed our registrations at 133 No. of participants with over 70+ attendees.

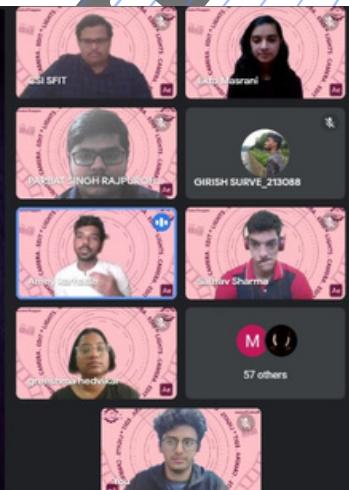


The workshop began with a warm welcome by the Vice-Chairperson of CSI-SFIT Ms. Ekta Masrani. Later a little summary and how the workshop will proceed was apprised by our instructor Mr. Amey Karhade where he explained that the workshop will be divided in four parts which would cover topics such as:

- Introduction to the After effects UI .
- Basics of Masking
- Working with key frames.
- Details about various Free resources and online plugins to make edits quicker!

Various installation files and resources needed for the workshop were provided to the participants in advance.

Various installation files and resources needed for the workshop were provided to the participants in advance. The session came to conclusion with a small contest for the participants where they had to make a video on their own. Amazing prizes such as amazon gift cards were provided to the winners of the contest. All the participants showed keenness in the workshop and asked a lot of questions and doubts. In the end a vote of thanks was given by Varun Patkar (Chairperson of CSI-SFIT) where he appreciated all the participants for their active participation and he also thanked our instructor Mr. Amey Karhade for giving his valuable time and knowledge.



KICKSTART TO PYTHON

A workshop named Kickstart to Python was organized by the us on the 9th April ,2022, which was taken by the Tech Team. We closed registrations at 305 students due to the amazing response for the registration. We had 3 batches and garnered over 290+ attendees. A report for the same is as follows: The major objective of the session was to familiarize the attendees with Basic of python and cultivating interest in the same The following topics were covered during the session:

- Introduction to Python
- Data types
- Control statements
- Functions
- Classes, Objects
- Inheritance
- Polymorphism
- File Systems
- Applications



The session was a big success, as all the participants had shown keen interest in this upcoming technology and asked many questions about Python, and its real-life applications. This made students interested and motivated to take up projects in the said domain. The response and feedback from the participants about the session was very good and as per the feedback, they would want to attend more sessions like this in future.



The CSI Show 2.0



Just like Stranger Things, the Season 1 of The CSI Show was such a hit that we couldn't help ourselves but buckle up and start working on the new season, 'The CSI Show S2'.

We came back to the scene with a bang with everything new including the intro, the templates, concepts and also the hosts. There again began our hunt to find new and amazing people who could incite us with their out of the box career decisions and obstacle-filled life journeys.

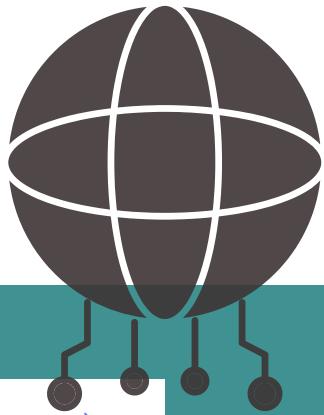
Our first host was a special entrepreneur who is known for his groundbreaking creative work in the Indian film industry and to wrap up the finale of the CSI Show S2 , we hosted one of our very own SFIT alumni Ms. Pranita Jaiprakash who now works in Apple in the United States.

Our small initiative proved a huge success as so many people tuned in during the live screening of the episodes and attained valuable knowledge from the same.

Last but not the least a big Thank You to everyone who tuned in to watch our episodes, and this is surely not the end as the grind continues. CSI will continue to amaze and inspire you all with more such breathtaking content. To all the viewers out there, thank you for tuning in every episode and to those who still haven't seen it, go check it out! The CSI Show Season 2 is now on YouTube!

Follow this link for the full playlist - [The CSI Show | Season 2](#)

What is the whole fuss about Web 3.0?



Web 3 (also known as **Web 3.0** and sometimes stylized as **web3**) is an idea for a new iteration of the World Wide Web which incorporates concepts such as decentralization, in the form distributed ledger such as blockchain technologies, and token-based economics.

The Web of today is static and unable to adjust to the individual needs of each person experiencing it. Web 3.0 promises to be more dynamic and interactive. By implementing artificial intelligence and blockchain technology, it will redefine the web experience with structural changes to ensure democratization across all aspects of the internet.



Uses of Web3.0:

Metaverse: This technology enables people to interact with each other and brands using virtual 3D avatars in a virtual animated world. Think of it as a replica of the natural world, but with subtle differences. For instance, Manchester City FC recently unveiled plans to build their Etihad Stadium replica in the metaverse world. This would allow their fans who couldn't otherwise go to Manchester to watch a football game live in 3D.

Decentralized Gaming (GameFi): Decentralized gaming is nothing but a game where all the data is stored on a blockchain, and users who play the game will vote upon its features. The web 3.0 gaming experience will be consumer-centric, and the focus will be on using the game as a service and not a standalone product.

Decentralized Finance (DeFi): Decentralized finance is a protocol wherein users can lend or borrow money (both crypto and fiat currency) for earning some income. The only difference between a centralized financial institution like banks, others, and decentralized finance institutions like YFI, AVAX, AAVE, and others is that the entire operation happens using smart contracts and on the blockchain.



Here are some features of Web3.0

- **Semantic Web:** The next evolution of the Web involves the Semantic Web. The Semantic Web improves the abilities of web technologies to generate, share and connect content through search and analysis by understanding the meaning of words rather than by keywords or numbers.
- **Artificial Intelligence:** By combining semantic capabilities with natural language processing, computers can understand information on a human-like level to provide faster and more relevant results. In doing so, they become more intelligent and better satisfy the needs of users.
- **3D Graphics:** Three-dimensional design is used extensively in websites and services in Web 3.0. Museum guides, computer games, eCommerce, geospatial contexts and more are all common examples of this.
- **Connectivity:** With Web 3.0, information is more connected thanks to semantic metadata. As a result, the user experience evolves into a new level of connectivity that leverages all available information.
- .



- **Ubiquity:** Internet content and services can be accessed anywhere at any time via any number of devices, rather than exclusively via computers and smartphones. Web 2.0 is already ubiquitous in many ways, but the growth of IoT devices will take it to new levels.



- **Blockchain:** With blockchain technology, user data is protected and encrypted. This prevents large companies from controlling and/or using users' personal data for their gain.
- **Decentralized:** Decentralized data networks store data within a peer-to-peer interconnection. Users maintain ownership over their data and digital assets and are able to log in securely over the internet without being tracked.
- **Edge Computing:** Web 3.0 relies on the advance of edge computing in which apps and data are processed at the network edge on devices such as mobile phones, laptops, appliances, sensors and even smart cars.

- Anurag Yadav
(Technical Executive)

Role of Blockchain in Web 3.0



(Web 3.0 is a possible future version of the internet based on public blockchains, a record-keeping system best known for facilitating cryptocurrency transactions. The attractiveness of Web 3.0 is that it is decentralized, meaning that rather than consumers accessing the internet through services mediated by companies like Google, Apple or Facebook, individuals, themselves, own and govern sections of the internet.)

Web 3.0, Crypto and Blockchain: How are they related?

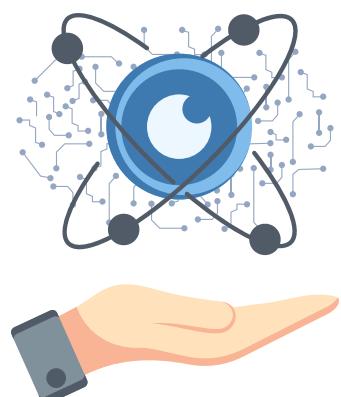
To reiterate, both Web 3.0 and blockchain strive for openness and transparency. But this is not the end of parallel possibilities. The goal of blockchain is to keep the insights organized as blocks, with cryptographic hashes entrusted to keep them unalterable and highly secure. If Web 3.0 becomes a reality, everyone will have access to resources, applications, agreements, and content, as long as cryptographic keys are in place.

Blockchain: the cornerstone of the Web 3.0

Blockchain technology is a record of transactions and information organized in blocks in a peer-to-peer network. The blocks are linked together in a single list, called a chain, by means of a cryptographic hash making the records impossible to modify by creating a secure data structure. All parties involved in verifying a transaction, as well as a significant number of third parties, maintain a full copy of the blockchain, creating a robust and distributed network. Since blockchain is the underlying technology of Bitcoin, and it was the first technology use case we heard of, people inadvertently used "Bitcoin" to refer to blockchain, leading to a never-ending confusion.

The impact of Web 3.0 on crypto investments

After we have established the basic assumption and expectations for Web 3.0 and its reliance on blockchain technology, it is critical to understand what this means for specific cryptocurrencies and the investing prospects. The contribution of Ethereum in supporting the development of decentralized applications has made it the most sought-after web 3.0 blockchains.



Role of Blockchain in Web 3.0



This fast-evolving technology has already captured the interest of VC investors

Bitcoin was the first, but definitely not the last one. After a frenzied start followed by a steady innovation growth, the cryptocurrency market. Nevertheless, blockchain technology capabilities enable many more applications besides cryptocurrencies: it allows the digital representation – aka tokenization – of financial instruments such as bonds, stocks, or derivatives, the traceability of goods in a value chain, document notarization and more.

Conclusion

With its inherent characteristics, blockchain emerged as a potent force that altered traditional company operations. The functions of blockchain in Web 3.0 are evident from the observations about the third generation of the web. However, decentralization is the most prominent feature of blockchain, which makes it a perfect basis for Web 3.0.

- Vedant Kadam
(Technical Executive)



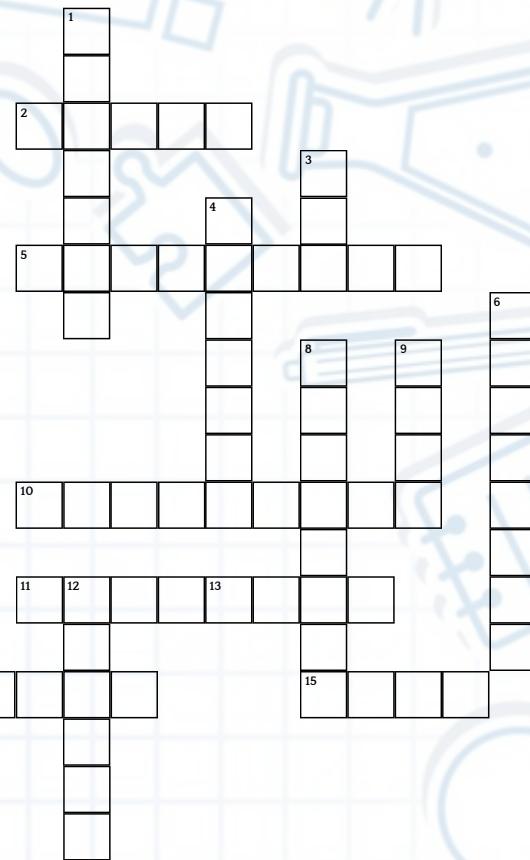
TechTastic Crossword!

Across

2. A device that feeds data into a computer, such as a keyboard or a mouse.
5. The exclusive right, as recognized separately in each country, to publish and sell literary, artistic, or musical materials.
10. A software system that links topics on the screen to related information and graphics, which are typically accessed by a point-and-click method.
11. copy (data) from one computer system to another, typically over the Internet.
14. Usually consists of eight bits.
15. A measure of the amount of computational work that a computer system performs.

Down

1. Usually comprises the display device, circuitry, casing, and power supply.
3. An error, flaw, failure, or fault in a computer program or system that causes it to produce an incorrect or unexpected result or to behave in unintended ways.
4. A client software program that runs against a Web server or other Internet server and enables a user to navigate the World Wide Web (WWW) to access and display data.
6. The collection of physical parts of a computer system.
7. Sending an email, posting photos on a social media site and using your webcam.



8. A part of a computer system or network that is designed to block unauthorized access while permitting outward communication.
9. The combination of typeface and other qualities, such as size, pitch, and spacing.
12. Any computer-generated information displayed on the screen, printed on paper or in machine-readable form, such as disk and tape.
13. A word or group of words that act as a way to cross-reference to other documents or files on the computer.

AI/ML and Web 3.0

AI is influencing every software category so Web 3 shouldn't be an exception. But there are fundamental, technical roadblocks about Web 3 stacks for the adoption of AI technologies.

Web 3.0 will advance the current state of computers. Computer scientists will continue developing semantic Web concepts for computers to learn so that they can use information in ways similar to humans. The Semantic Web is an extension of the existing World Wide Web, using information with well-defined meanings. The goal of the Semantic web is to allow people and computers to work together – in voice, text or other interfaces.

Natural Language Processing (NLP) is a branch of computer science that gives computers the ability to understand written and spoken words.

Growing from early usages like spell check or auto-complete, natural language processing uses advanced algorithms to enable computers to read, understand and derive meaning from words and phrases. Machine learning uses algorithms to help machines learn in the ways that humans do.

The combination of technological advances – AI, NPL and the Semantic Web – develops intuitive computer capacity far beyond what we use today Layers of Web 3 intelligence

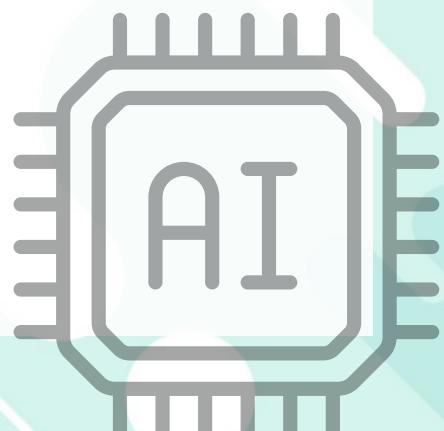


Layers of Web 3 intelligence

The addition of ML in Web 3 will not happen as an atomic trend; rather, it will be spread across different layers of the Web 3 stack. ML-driven intelligence can emerge in three key layers of Web 3.

Intelligent protocols

Smart contracts and protocols are another component of the Web 3 stack that will start incorporating ML capabilities. DeFi seems to be the prototypical example for this trend. We are not far from seeing a generation of DeFi automated market makers (AMMs) or lending protocols that incorporate more intelligent logic based on ML models. For instance, we can imagine a lending protocol that uses an intelligent score to balance the types of loans from different types of wallets.



AI/ML and Web 3.0

Intelligent dapps

Decentralized applications (dapps) are likely to become among the most likely Web 3 solutions to rapidly add ML-driven features. We are already seeing this trend in NFTs, but it's going to become increasingly pervasive. The next-generation NFTs will transition from static images to artifacts that exhibit intelligent behavior. Some of these NFTs will be able to change their behavior based on the mood of their audience or the profile of new owners.

The rapid evolution of ML research and technology in the last decade has translated into an overwhelming number of ML platforms, frameworks and APIs that can be used to add intelligent capabilities to Web 3 solutions. We are already seeing isolated examples of intelligence in Web 3 applications. so we can safely say that intelligent Web 3 is already here, just not evenly distributed.

Intelligent blockchains

The current generation of blockchain platforms has focused on building key distributed computing components that enable the decentralized processing of financial transactions. Consensus mechanisms, mempool structures and oracles are some of these key building blocks. Just as core components of traditional software infrastructures such as networking and

storage are becoming intelligent, the next generation of layer 1 (base) and layer 2 (companion) blockchains will natively incorporate ML driven capabilities. For instance, we can think of blockchain runtime that uses an ML prediction for transactions to enable a massively scalable consensus protocol.

- Allan Rodrigues
(Technical Executive)



CHOICES! CHOICES!

MULTIPLE CHOICES!



1) The early internet that only allows people to read from the internet.

- A. Web 1.0
- B. Web 2.0
- C. Web 3.0
- D. Web 0.0

2) The Web ___ is used as a static "information portal" by many people.

- A. Web 2.0
- B. Web 1.0
- C. Web 3.0
- D. None of the above

3) This is about user - generated content and the readwrite web.

- A. Web 2.0
- B. Web 1.0
- C. Web 3.0

4) It is a platform that give users the possibility to control their data (content creation and collaboration, folksonomy) answer choices

- A. Web 3.0
- B. Web 2.0
- C. Web 1.0

5) Web 2.0 concept. RIA stands for (allow for many types of content (audio, video, text, and images) and interaction (one-to-one, one-to-many, many-to-many)?

- A. Rock Internet Application
- B. Rich Internet Application
- C. Receive Internet Application

6) It defines the experience brought from desktop to browser.

- A. Service Oriented Architecture
- B. Rich Internet Application
- C. Social Web

7) It defines how web 2.0 tend to interact much more with the end user and making the end user an Integral part.

- A. Spider Web
- B. Social Web
- C. Semantic Web
- D. Static Web

8) Which of the following does not belong to the web 1.0?

- A. Sites are static
- B. Focused on communities
- C. Companies Own or produce the Content
- D. Sites aren't Interactive

9) Which of the following does not belong to web 2.0?

- A. Static Pages
- B. Focuses on Communities
- C. Read and Write Web
- D. Sharing Content

10) In this generation, all the application on web or mobile will be upgraded with more features which will allow for a unique browsing experience for users.

- A. Web 1.0
- B. Web 2.0
- C. Web 3.0

11) Characteristic of Web 3.0. Available at anytime, anywhere, through any channel or device

- A. Individualized
- B. Efficient
- C. Ubiquitous

12) Characteristic of Web 3.0. Filtered and shared by friends or trust network

- A. Individualized
- B. Efficient
- C. Ubiquitous

13) Read only web, Information sharing and company focused are example of?

- A. Web 2.0
- B. Web 3.0
- C. Web 1.0
- D. Semantic Web

14) An exciting new evolution of the World Wide Web (WWW) providing machine-readable and machine-comprehensible information far beyond current capabilities.

- A. Dynamic Web
- B. Web browser
- C. Semantic Web
- D. Static Web

15) Which of the following does not belong to the web 3.0

- A. Semantic Web
- B. Read, Write and Understand Web
- C. The Social Web
- D. None of the above

FEEDBACK

From being anxious about applying for Core to getting elected as CSI SFIT's Vice Chairperson in the year 2021, from being in the online phase to the commencement of offline college, my journey with CSI has been a rollercoaster with amazing experiences and memories to cherish for life!

So, "**If I were to explain what CSI means to me?**"
Tour to self development and diverse learning.



With full of contentment, I can say that we started out as a **team of 25 people** who were complete strangers to each other to now being **friends for life**. As it is said, "Many hands make light work", I did get lucky to obtain an extremely diligent team and it was hands down the best team anyone could ever ask for. The transformation from pandemic to the offline mode wasn't easy, with challenges we didn't even know about. We still had many **successful events and meetups**, through our persevering efforts. Taking up with the legacy of the superhit CSI Show Season 1, we couldn't help ourselves but buckle up and start working for the new season, 'The CSI Show 2.0' with quite an innovation. With an advancement to previous season, we initiated a new way of introduction and chased down incredibly inciting guests, that would help us gain valuable lessons from their struggles and real life experiences.

Keeping that theme in mind, we held 3 **workshops**, covering **both tech and non-tech expertise**, making our time worthwhile with the overwhelming responses we received. Besides the shows and events, we made sure we connected with all of our viewers more, from our famous "**Discord with CSI**" learning sessions to a deluge of social media handles. All things considered, this year has been special and worth remembering!

As all good things must end, it's heartwarming to say goodbye to the team, remembering the **innumerable memories** we've had together. I share my gratitude to each one who has been with me on the ride and hereby sign off and embark for a new journey. My journey ends this year, but the **legacy continues!** And my feedback for anyone who wishes to join CSI is to just **make IT happen!**

- **Ekta Masrani**
(Vice Chairperson)

ACKNOWLEDGEMENT

CSI-SFIT student chapter in the academic year 2021-2022 organized a series of **3 technical and non technical events** for which we received overwhelmingly positive feedbacks from the participants.



On behalf of our CSI committee, I sincerely thank **Director** Bro. Jose Thuruthiyil, **Principal** Dr. Sincy George, **Training and Placement Officer** Mr. Wilson Pinto and **Dean Academics and professor** Dr. Kevin Noronha for giving us the permission to conduct various events throughout this year and provide us with an opportunity to present this magazine. I would also like to express gratitude towards Dr. Kavita Sonawane, **Head of Computer Engineering department** and Dr. Joanne Gomes, **Head of Information Technology department** for her immense corporation. Without the support and guidance of our CSI staff coordinators, the organization and management of all the events wouldn't have been as easy and smooth.

So I am thankful to **Mrs. Amrita Mathur** and **Mrs. G. Anuradha** for their constant guidance throughout the academic year. This magazine is a result of a combined effort of all committee members,

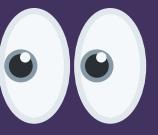
CSI creative team and all the **students** who showed an interest to publish their articles. So I am grateful to each and everyone of them for their honest and valuable contributions.

Last but not the least I would like to take this opportunity to acknowledge all the **committee members**, our dear **audience** and everyone who played a part in the success of our CSI events.

Thank You!

- **Varun Patkar**
(Chairperson)

The answers you've been looking for



Crossword

ACROSS

- 2. Input
- 5. Copyright
- 10. Hypertext
- 11. Download
- 14. Byte
- 15. Load

DOWN

- 1. Monitor
- 3. Bug
- 4. Browser
- 6. Hardware
- 7. Upload
- 8. Firewall
- 9. Font
- 12. Output
- 13. Link

Multiple Choice

- 1) A. Web 1.0
- 2) B. Web 1.0
- 3) A. Web 2.0
- 4) B. Web 2.0
- 5) B. Rich Internet Application
- 6) B. Rich Internet Application
- 7) B. Social Web
- 8) B. Focused on communities
- 9) A. Static Pages
- 10) C. Web 3.0
- 11) C. Ubiquitous
- 12) A. Individualized
- 13) C. Web 1.0
- 14) C. Semantic Web
- 15) C. The Social Web



WEB3

