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TECHNICAL COMMITTEE

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Kursi Road, Lucknow-226026 Uttar Pradesh (India)

www.iul.ac.in

Dr. Mohammad Faisal
(Mentor)

Gausiya Yasmeen
(Member, Technical Committee)

Arshlan Kaushar (B.C.A. 2nd year)
(Designer)

Faraz Rasool (B.C.A. 2nd year)
(Editor)



WELCOME TO DIGITAL AND TECHNICAL WORLD



01 OpenAI CEO Sam Altman's Worldcoin Crypto Under European Regulators Scrutiny



Less than a week after its launch, the Worldcoin crypto project of OpenAI chief executive Sam Altman is already under scrutiny by European regulators over its reliance on an eye scan to verify a user's identity, France's data protection agency said Friday.

Worldcoin's launch on Monday comes as the cryptocurrency industry is suffering hard times after the spectacular collapse of FTX and various legal cases against the sector's biggest players.

Using eye scans, it tries to solve one of the main challenges facing the crypto industry: a level of anonymity so high that makes it vulnerable to scams and spam bots -- which AI threatens to make exponentially worse.

02 British Museum Step into Metaverse, Partners With The Sandbox

The British Museum, based in London, is ready to step into the world of metaverse. The home of Britain's history since the mid-eighteenth century will now have an address in The Sandbox, a platform that provides a fully functional virtual universe that lets entities exist as avatars. The entry of this historic British landmark into the metaverse is just another testification to UK's open-mindedness about Web3. The UK, in recent months, has shown a steadfast approach towards embracing the up-and-coming Web3 sector that encompasses projects related to crypto, NFTs, and the metaverse.

As part of this collaboration, NFTs inspired by some artifacts showcased in the museum will be launched for collectors to own as a piece of history in detailed digital versions.



03 Countdown to NASA's Streaming Service !



NASA is getting in on the "+" streaming action. The government agency announced that it's going to launch a new streaming service later this year called NASA+. The ad-free, no-cost streaming service will include live coverage of future launches, documentaries and new original series that will be exclusively available on the platform.

"We're putting space on demand and at your fingertips with NASA's new streaming platform," said Marc Etkind, NASA's associate administrator of communications.

From Twitter to 'X' : Elon Musk's Logo Shake-Up !

Twitter owner Elon Musk officially changed the company's famous bird logo to an "X" on Monday as part of a sweeping rebrand he announced on the social media site over the weekend.

Musk, who acquired the platform for \$44 billion late last year, wrote in a post Sunday that the company would soon "bid adieu to the twitter brand and, gradually, all the birds."



05 Microsoft 365 Copilot : Are You Ready for Your Personal AI



Microsoft last week announced the upcoming availability of Microsoft 365 Copilot, and it looks to be a huge game-changer. At the enterprise level, it will help you find anything you need inside or outside the company, and it will eventually come to learn things about you and your company that will allow it to do much of your email, typing, presentation preparation, and make you look better in front of your boss and peers. It is in an early stage, though, and just a shadow of what it will evolve into.

06 First US Robotic Liver Transplant : A Medical Milestone

A surgical team from Washington University School of Medicine in St. Louis achieved a remarkable milestone by performing the first-ever robotic liver transplant in the United States. This groundbreaking procedure, carried out at Barnes-Jewish Hospital, brings the advantages of minimally invasive robotic surgery to liver transplants, offering promising benefits for future patients in need of this life-saving procedure.



AI : The Catalysts for New-Era Cyber Crime

Cyber criminals have developed new methods to scam people by leveraging Artificial Intelligence (AI) to create convincing voice imitations of family members or friends, said Deputy Superintendent of Police, Criminal Investigation Unit, CID, Lingaraj.



07

09 UNESCO Calls for Global Ban on Smartphones in Schools

UNESCO believes smartphones should be banned from schools, as they distract students and don't really contribute to the learning process.

The UN's educational organization has launched a global new report on technology in education, calling for governments around the world to regulate its use.



Google and Bing Ads Hijacked for Malware Spread

New research by cybersecurity experts from Sophos reveals that the Google and Bing advertising networks have become channels for delivering malware to targeted users. The recently discovered malware campaign, named Nitrogen, exploits these ad networks to promote popular tools like AnyDesk. However, when unsuspecting users click on the ads, they are not directed to the legitimate websites of these products. Instead, they are redirected to compromised WordPress websites, putting them at risk of potential security threats.



10

08 This dangerous Malware Spoofs top Android apps to infect your device - here's how to safe

Cybersecurity researchers from CloudSEK uncovered a variant known as DogeRAT (Remote Access Trojan). The malware has all sorts of capabilities, from accessing contacts and messages to exfiltrating banking credentials. It can also take over the compromised device, send spam, make payments, tweak files, and even use the device's camera.

To stay safe, CloudSEK reminds, users should always be mindful about the applications they're downloading, and just because something's on the Play Store, doesn't necessarily mean it's clean and legitimate. Threat actors often manage to infiltrate Google's app repository, and sometimes add to the malware's



11 ISRO to Launch PSLV-C56 with 6 satellites

ISRO has announced the launch of PSLV-C56, scheduled for July 30th at 6:30 AM from Sriharikota's Satish Dhawan Space Centre. The mission will carry Singapore's DS-SAR satellite, featuring a Synthetic Aperture Radar (SAR) payload developed by Israel Aerospace Industries (IAI). This advanced SAR technology enables all-weather, day and night imaging at 1m-resolution with full polarimetry.

The DS-SAR satellite will cater to the satellite imagery requirements of various Singaporean government agencies, while ST Engineering will leverage it to offer responsive imagery and geospatial services to commercial customers.



12 HCL Tech Joins XR Startup Programme with Meity and Meta

HCL Tech, a multinational IT company, has joined the XR Startup Program, a collaborative effort between Meta and the MeitY Startup Hub, to bolster and accelerate extended reality (XR) technology startups in India.



As part of this collaboration, HCL Tech will play a key role in establishing a flourishing ecosystem for Indian startups, enabling them to lead and innovate in vital sectors like education, healthcare, and agri-tech.

SaaS Startup Plus91Labs acquires Pixely

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Plus91Labs, a cloud consulting and IT service provider in India, has acquired Pixely (Internet X Pte Ltd), a company specialising in customised solutions for the Southeast Asian market. The acquisition of Pixely enhances Plus91Labs' existing product and service offerings, benefiting customers across various industries. Pixely's expertise in the financial services industry, fintech, NGOs, and education sectors will enable Plus91Labs to deliver tailored Salesforce solutions that address specific needs and challenges faced by organisations in these sectors.

14 India's Data Privacy Bill approved by Union Cabinet

The Union Cabinet on Wednesday approved the Digital Personal Data Protection Bill. The Bill will be taken to Parliament in the upcoming Monsoon Session to be passed as a law and once passed, it will be India's first law on data privacy and data protection.

The Bill entails penalising private as well as government entities ₹250 crore per instance in case of a data breach, which can be raised to ₹500 crores by the Data Protection Board that will be constituted as the appellate body under the law, as reported by Mint. The penalties will be decided on a case-to-case basis, depending on the severity, the scale and number of people impacted by the breach, and the clauses that have been specified in the Bill.



15 Vedanta Chairmen Says Their \$5 Billion Made-in-India Chip Will Be Ready in 2.5 Years


Vedanta group chairman Anil Agarwal on Friday said that the first phase of its semiconductor project will involve a \$5 billion (roughly Rs. 41,300 crore) investment of the overall \$20-billion (roughly Rs. 1,64,500 crore) outlay, and the venture will be ready with made-in-India chip in two and a half years.

Vedanta is talking to three companies to rope them in as technology partners for its mega plans entailing foundry, chip manufacturing, and packaging and design.


"In 2.5 years, we will give you Vedanta made-in-India chips," Agarwal told reporters on the sidelines of the SemiconIndia 2023 event.




Unknown Facts

 The first alarm clock only rings at 4 a.m.

 The world's first computer mouse was wooden, not plastic.

 No one yet has verified the identity of Bitcoin's founder.

 The word technology was coined in 330 BC by the one and only Aristotle.

Did You Know

News of the Month

Chandrayaan - 3 : India's historic Moon Mission lifts off successfully

The BBC's Arunoday Mukharji, who was at the launch site, said there were roars of "Bharat Mata ki jai [Victory to mother India]" from every corner of the hall.

"Chandrayaan-3 has begun its journey towards the Moon," Indian Space Research Organisation (Isro) chief Sreedhara Panicker Somanath said in his first comments following the successful lift off. "Our launch vehicle has put the Chandrayaan on the precise orbit around the Earth." Isro tweeted that "the health of the spacecraft is normal".

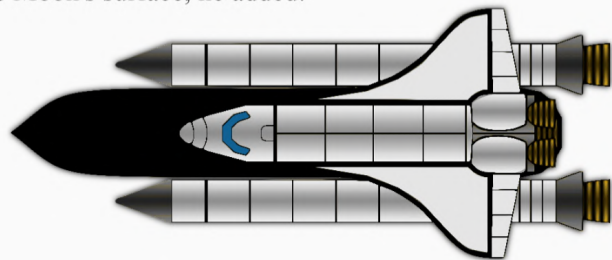
Prime Minister Narendra Modi said Chandrayaan-3 had "scripted a new chapter in India's space odyssey".

The third in India's programme of lunar exploration, Chandrayaan-3 is expected to build on the success of its earlier Moon missions

Chandrayaan-2 - which also comprised an orbiter, a lander and a rover - was launched in July 2019 but it was only partially successful. Its orbiter continues to circle and study the Moon even today, but the lander-rover failed to make a soft landing and crashed during touchdown. It was because of "a last-minute glitch in the braking system", explained Mr Annadurai.

Mr Somanath has said they have carefully studied the data from the last crash and carried out simulation exercises to fix the glitches.

Chandrayaan-3, which weighs 3,900kg and cost 6.1bn rupees (\$75m; £58m), has the "same goals" as its predecessor - to ensure a soft-landing on the Moon's surface, he added.



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Prompt Engineering

Prompt engineering involves designing input instructions to guide AI models like me in generating desired outputs effectively.

Prompt Eng



Data Structure and Algorithms

DSA stands for "Data Structures and Algorithms," which are foundational elements in computer programming for organizing data and solving problems efficiently.

DSA



React

React is an open-source JavaScript library for building user interfaces on the web. It allows developers to create reusable UI components that update efficiently, improving performance and user experience.

React



Artificial Intelligence and Machine Learning

AI is the concept of creating smart machines, while ML is a subset of AI focused on teaching computers to learn from data and improve their performance on tasks.

Machine learning



AI



Artificial Intelligence Appreciation Day



Artificial Intelligence Appreciation Day is celebrated on July 16 each year. The day aims to honour artificial intelligence technology's positive contributions to humanity. It also highlights AI ethics and encourages conversation about AI and ethics.

What is AI

AI, or Artificial Intelligence, is when computers are programmed to do tasks that typically require human thinking, like learning, problem-solving, and decision-making. It's like teaching machines to think and act smartly.

What accomplishments has AI achieved thus far



1. Natural Language Processing (NLP)

- Language translation (Google Translate).
- Chatbots and virtual assistants (like Siri, Alexa, and Google Assistant)
- Sentiment analysis to understand emotions in text.

2. Computer Vision

- Object recognition and image classification (identifying objects in photo)
- Facial recognition (unlocking phones with your face).
- Autonomous vehicles (self-driving cars).



3. Gaming

- Game playing AI (Deep Blue beating chess champions, AlphaGo winning at Go).

4. Healthcare

- Medical image analysis (detecting diseases from X-rays and scans).
- Drug discovery and development.

5. Finance

- Algorithmic trading in the stock market.

6. Personalization

- Recommendation systems (suggestions on Netflix, Amazon, etc.).
- Content generation (AI-written articles, music, art).

7. Robotics

- Industrial automation and manufacturing.
- Social robots assisting in various tasks.

8. Research and Science

- Data analysis in various scientific fields.
- Protein folding prediction and bioinformatics.

9. Art and Creativity

- AI-generated art, music, and poetry.

10. Education

- Adaptive learning platforms.
- Language learning apps.



Power BI



AI Lifecycle

