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LUCKNOW (INDIA)



DEPARTMENT OF COMPUTER APPLICATION
TECHNICAL COMMITTEE

Presents

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MONTHLY
Tech Dose



WELCOME TO DIGITAL AND TECHNICAL WORLD



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01

IBM launches its most powerful quantum computer with 433 qubits

International Business Machines Corp on Wednesday, Nov 9 2022 said it launched its most powerful quantum computer to date called the Osprey, a 433-qubit machine that has three times the number of qubits than its Eagle machine announced last year. The number of qubits, or quantum bits, are an indication of the power of the quantum computer which uses quantum mechanics, although different quantum computer companies make different claims about the power of their qubits which can be created many different ways. Quantum computers are one day expected to speed up certain calculations millions of times faster than the fastest super computers today.

IBM

<https://zeenews.india.com/technology/windows-11-to-let-users-connect-to-android-phones-via-itsipit-252842.html>

02

Qualcom debuts new Flagship Snapdragon Processor for mobile devices

Qualcomm Inc. today debuted its new flagship mobile processor, the Snapdragon 8+ Gen 1, which features speed and power efficiency improvements as well as an enhanced machine learning module. The company also introduced two other additions to its product portfolio today. The first is a new processor for midrange mobile devices, while the other is a reference design that hardware makers can use to build augmented reality glasses. Qualcomm's new Snapdragon 8+ Gen 1 processor is an improved version of its previous flagship chip, the Snapdragon 8 Gen 1, which debuted last November. Both products are based on a system-on-chip design. A system-on-chip is a processor that combines multiple types of computing modules in a single package. The new Snapdragon 8+ Gen 1 features a central processing unit that uses up to 30% less power than its predecessor. Qualcomm also promises a 10% performance improvement. The CPU is joined by an upgraded graphics processing unit that likewise offers up to 30% better power efficiency and a 10% speed increase.



<https://india.com/htkik-becomes-the-worlds-highest-grossing-social-app-with-over-2-5-million-daily-revenue/>

03

Tata Group to hire 45,000 women workers at iPhone Hosur factory

The Tata Group is reportedly looking to hire 45,000 employees for its electronic factory in Hosur that makes iPhone components. It assumes significance as the Tata Group is eyeing more orders from Apple Inc. The Hosur plant will see this hiring within 18-24 months as it sets up a new production. The factory already employs 10,000 workers, most of whom are women. The plant is spread over more than 500 acres. In September 2022, it hired around 5,000 women, the report added.



<https://www.indiatimes.com/trending/wtf/woman-scanned-by-tata-russian-osprey-fuses-15-24-lab-38765.html>

VLC Media Player Back In India! Government Revokes Ban For The Website

04



The ban in VLC media player has now been revoked and people can now once gain access the site. Earlier in the year, the Indian government had imposed a ban on the website. While many users were unable to access the website in India or download it but according to reports it worked fine for mobile apps. The Internet Freedom Foundation (IFF) tweeted that the IT Ministry has removed the ban on the website.

<https://www.indiatoday.in/technology/news/story/netflix-to-charge-extra-fee-from-users-for-sharing-their-gossip-238728-2022-10-18>

05

Google has a secretive project that could reduce the need for human engineers

Google has a secret new project that is teaching artificial intelligence to write and fix code. It could reduce the need for human engineers in the future. This project is part of a broader push by Google into so-called generative artificial intelligence, which uses algorithms to create images, videos, code, and more. It could have profound implications for the company's future and developers who write code.



<https://indianexpress.com/article/technology/tech/google-true-5g-powered-wifi-launched-in-india-all-you-need-to-know-822488/>

06

Microsoft introduces polls to make meetings more engaging in Teams

Microsoft has introduced "polls" that will offer users a way to create polls right away with the Microsoft Forms app, making meetings more engaging in Teams. This feature will allow users to get the answers they are looking for without leaving their meeting or group chat. To post a poll in a Team's channel or get instant feedback in a chat pane, go to channel or the chat you want to include a poll in, then at the bottom of your teams window, select forms, then add your question- and answer options.



Microsoft

<https://www.outlookindia.com/business/rti-launches-concept-note-to-create-awareness-about-central-bank-digital-currency-cdc--news-228263>

Tesla to integrate Dolby Atmos in its electric cars to deliver better sound quality



Elon Musk's Tesla is reportedly working to integrate Dolby Atmos in its electric cars, to deliver better surround sound. Dolby Laboratories created the surround sound technology called Dolby Atmos. According to the company, it is described as "expanding on existing surround sound systems by adding height channels, allowing sounds to be interpreted as three-dimensional objects," reports Electrek. Although it has been around for ten years, it was first integrated into movie theatres, then high-end home theatres, and now recently making it into cars.

<https://www.hindustantimes.com/technology/mod-gst-s-warning-for-com-users-shouldn-t-be-ignored-if-any-cost-10166555216524.html>

08

Meta fined \$277 million for data leak of half a billion users

Meta Platforms Inc. was slapped with a \$277 million fine for failing to prevent the leak of the personal data of more than half a billion users of its Facebook service. The Irish Data Protection Commission, the main privacy watchdog for Meta in the European Union, levied the fine following a probe that found the social-media company had failed to apply strict safeguards required under the bloc's sweeping General Data Protection Regulation.



<https://economictimes.indiatimes.com/technology/tech/wpro-infosys-tech-mahindra-revive-offer-offers-guest-to-freshers-report/ArticleShow/9462440.cms?from=mdr>

09

Reliance Jio launches JioGamesCloud

Reliance Jio has introduced a new cloud gaming platform called JioGamesCloud in India. The service provider claims that the cloud gaming platform offers an extensive and ever-evolving games catalog for gamers. Jio also revealed that the games available on the platform range from AAA Titles to Hyper Casual Games. With JioGamesCloud, you just have to plug-in your internet and then start playing popular titles on your PC, smartphone, TV and Web browser. The JioGamesCloud is presently available in Beta version so the company is not charging for the games.



https://www.business-standard.com/article/technology/akasa-air-uses-artificial-intelligence-product-to-make-travel-affordable-122093000254_1.html

07

ISRO Conducts Main Parachute Test For Gaganyaan Spaceflight Mission

ISRO's Vikram Sarabhai Space Centre has conducted the Integrated Main Parachute Airdrop Test (IMAT) of its crew module deceleration system for the much-awaited maiden Gaganyaan human spaceflight programme at the Babina Field Fire Range (BFFR) in Jhansi district of Uttar Pradesh. The IMAT conduction marks a significant milestone toward realising the nation's ambitious Gaganyaan project, the Indian Space Research Organisation (ISRO) said in a statement. The Gaganyaan deceleration system consists of three main parachutes, besides the smaller ACS, pilot, and drogue parachutes, to reduce the speed of the crew module to safe levels during its landing, the space agency said.

<https://www.businesstoday.in/technology/news/story/whatsapp-services-affected-across-the-world-35077-2022-01-25>

10

11

Elon Musk claims Apple has threatened to remove the Twitter app

Twitter owner Elon Musk claimed on Monday in a series of tweets that Apple had threatened to remove the Twitter app from the App Store as part of its app review moderation process. "Apple has also threatened to withhold Twitter from its App Store, but won't tell us why," Musk tweeted. Apple's App Store is the only way to distribute software to iPhones. If the Twitter app were pulled, the social network would lose one of its main distribution platforms, although the service is available for the web.



<https://timesofindia.indiatimes.com/business/india-business/elon-musk-claims-apple-threatens-to-remove-twitter-app-from-app-store-but-wont-tell-us-why-company-leads-how/94685348.cms>

12 45% of Indian firms report cybercrime frauds, rank second after customer frauds



More than half (52%) of Indian companies experienced fraud or economic crime in the last 24 months, with 45% of Indian organisations reporting cybercrime as the second biggest fraud after customer frauds (47%) involving mortgage, credit cards, claims and cheques to name a few, according to PwC's recent report titled: 'Global Economic Crime and Fraud Survey 2022'. The global survey that polled 1,296 organisations globally, including 112 CXOs from India across diverse industries further said that businesses have been exposed to new risks related to digital security, employee safety and disinformation due to uncertainties created by the pandemic and the subsequent shift to digital operations.

<https://www.indiatoday.in/technology/news/story/fraud-by-elao-musk-twitter-coo-parag-agrawal-and-policy-chief-vijaya-gadde-set-to-get-around-rs-1000-crore-230667-2022-10-23>

Twitter won't allow new users to purchase blue ticks for 90 days after re-launch of service

13

Twitter will not allow new accounts to purchase the Blue subscription service for 90 days when it relaunches. This means that users will not be able to instantly verify a new account, reports The Verge. It could be an effort to reduce the chances of scams and impersonator accounts. According to the report, the old plan didn't specify a waiting period, but it did have a warning that "Twitter accounts created on or after November 9, 2022, will be unable to subscribe to Twitter Blue at this time".



<https://economictimes.indiatimes.com/industry/banking/finance/india-saw-20-5-bn-online-transactions-worth-rs-36-trillion-in-q2-articleshow/94638319.cms?from=mdr>

14 Meta will support 100 Indian developers to work on open-source project



Meta, the parent company of Facebook, will support an extended reality (XR) open-source fellowship programme to enable nearly 100 Indian developers to work on an open-source project, the company said on 29th November 2022. Speaking at the event, the company's president of global affairs Nick Clegg said that it was through programs like these that the talent, insight and efforts of Indian developers would come to the fore. Clegg, who is the former vice president of the UK is on a week-long tour of India.

<https://thebusiness.com/news/meta-to-support-100-indian-developers-to-work-on-open-source-project-2022-11-29>

15 Apple leads India premium smartphone segment with 40% share

Apple led the premium segment in India with 40 per cent share, followed by Samsung and OnePlus, with registering highest ever shipment share in the country in the September quarter. Apple reached its highest ever share of 5 per cent in India's smartphone market during the quarter driven by a strong channel push ahead of the festive season. For the first time ever, an iPhone (iPhone 13) topped the overall India smartphone quarterly shipment rankings, according to Counterpoint Research. According to data from business intelligence platform Tofler, Apple India logged a net profit of Rs 1,263 crore, a growth of 3 per cent (year-on-year) in the fiscal year, as sales were up a massive 45 per cent.



<https://www.theverge.com/2022/10/24/2342016/google-chrome-windows-7-8-1-end-support>

Unknown Facts



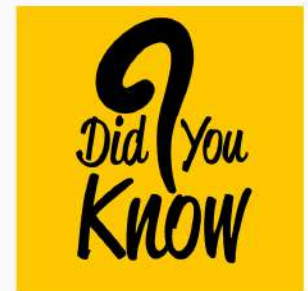
There are approx. 3.5 billion Google Searches per day. 7.2 percent of this traffic comes from people searching the term 'Google'.



Every iPhone advertisement has the time set to 9:41.



The average computer user blinks just 7 times a minute.



News of the Month

Cyber and Ransomware Attack at AIIMS, Delhi

Cyber attack took place at AIIMS Delhi on 23th Nov 2022. The ransomware attack is being looked into by the Delhi Police, the Ministry of Home Affairs, and the India Computer Emergency Response Team (CERT-IN). Hackers have allegedly demanded approximately Rs 200 crore in cryptocurrency from the All India Institute of Medical Sciences (AIIMS), Delhi, whose server has been down for six days in a row, news agency PTI reported quoting sources. It is feared that the breach discovered in morning may have compromised the data of 3–4 crore patients. The report quoted sources as saying that because the server was still down, patient care services in the emergency, outpatient, inpatient, and laboratory wings were managed manually. The ransomware attack is being looked into by the Delhi Police, the Ministry of Home Affairs, and the India Computer Emergency Response Team (CERT-IN).

The Intelligence Fusion and Strategic Operations (IFSO) division of the Delhi Police has filed a case of extortion and cyberterrorism. Internet access has reportedly been disabled on hospital computers based on the recommendations of the investigating agencies. Several VIPs, including former prime ministers, ministers, bureaucrats, and judges, had their data stored. "Hackers have allegedly demanded around Rs 200 crore in cryptocurrency," one of the sources told PTI. The NIC e-hospital database and application servers have been back online in the interim. Other e-hospital servers at AIIMS that are necessary for the provision of hospital services are being scanned and cleaned by the NIC team. The databases and applications have been scanned and prepared for four physical servers set up for restoring e-hospital services. In addition, the AIIMS network is being sanitised. Antivirus solutions for servers and computers have been planned. It has been installed on nearly 1,200 of the 5,000 computers available. Twenty out of fifty servers have been scanned, and this activity is ongoing 24 hours a day, seven days a week.

What is a cyberattack?

A cyber-attack is any attempt to gain unauthorised access to a computer, computing system or computer network with the intent to cause damage. Cyber attacks aim to disable, disrupt, destroy or control computer systems or to alter, block, delete, manipulate or steal the data held within these systems. Any individual or group can launch a cyber attack from anywhere by using one or more various attack strategies.

Lines of Code

OPERATING SYSTEM



MAC OS
87 Million



WINDOWS
50 Million



LINUX
20 Million

MESSENGERS



WHATSAPP
30 Thousands



INSTAGRAM
50 Million



FACEBOOK
30 Thousands

BEST RESOURCES



YOUTUBE
80 Million



GOOGLE
2 Billion



AMAZON
50 Million

10

A USER'S GUIDE:
**WAYS TO PROTECT YOUR
PERSONAL DATA**

1

Don't click that link!

What to do: Don't click links in emails. Instead, type the URL you want directly into the browser.

Why: According to Microsoft, phishing is still the number one favorite method of cyber-attacks.



2

Delete recorded conversations

What to do: Regularly delete any recorded conversations used by your personal assistant.

Why: There have been cases where Alexa revealed personal data to unknown persons without consent.



3

Be less social

What to do: Minimize the amount of personal data you have on social media platforms.

Why: Information like your pet's name or mother's maiden name is sometimes used to recover account logins. Don't give hackers an easy way into your online accounts! Keep off the beaten track



4

Keep off the beaten track

What to do: Disable location tracking on each app.

Why: A recent study of almost 1 million Android phones demonstrated that apps regularly harvested tracking data.



5

Encrypt stored data

What to do: Encrypt any data you store on hard drives and use an email encryption tool if you share personal data.

Why: Encryption is a layer of protection that can prevent lost or stolen data from being exposed.



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6

Use two-factor authentication

What to do: Use a second factor for logging into accounts.

Why: If you have a robust two or multi-factor in place, you are much less likely to lose personal data due to phishing.



7

Keep it clean—delete old files

What to do: Make sure you keep data replication to a minimum. Delete old files you don't use.

Why: There can never be 100% security, but reducing the places that can be compromised helps lessen your risk,



8

Don't sync for sync's sake

What to do: Disable automatic file and media sharing whenever possible.

Why: A lot of devices set up cloud syncing when you first configure the device. Check if you really want to store these data in the cloud.



9

Let sleeping Bluetooth lie

What to do: If you are not using Bluetooth, switch it off when possible.

Why: Bluetooth vulnerabilities can allow data to be siphoned off your device. Be less social

10

Patch your devices

What to do: Keep your computers and mobile devices patched and up to date.

Why: Software vulnerabilities allow malware to infect your device, which can steal data and login credentials.

