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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

Microsoft And Amazon To Layoff A Total Of 28,000 Employees

On January 18, Microsoft's CEO, Satya Nadella, announced significant layoffs at the company. In a statement, Nadella said, "today, we are making changes that will result in the reduction of our overall workforce by 10,000 jobs through the end of FY23 Q3. This represents less than 5 percent of our total employee base, with some notifications happening today". While Microsoft is laying off around 10,000 people, Amazon is laying off an astounding total of 18,000 people. This combined number includes layoffs in November 2022. The cuts represent approximately 6% of Amazon's workforce. However, most of the eliminated roles are connected to the Amazon Stores and PXT divisions.



<https://zeenews.india.com/technology/windows-11-to-let-users-connect-to-android-phones-via-hotspot-2528142.html>

02

Data of 200 million twitter users leaked



Hackers stole the email addresses of more than 200 million Twitter users and posted them on an online hacking forum, a security researcher said on Wednesday, 4 January 2023. The breach "will unfortunately lead to a lot of hacking, targeted phishing and doxxing", Alon Gal, co-founder of Israeli cybersecurity monitoring firm Hudson Rock, wrote on LinkedIn. He called it "one of the most significant leaks I've seen". Twitter has taken to investigate or remediate the issue. Reuters could not independently verify if the data on the forum was authentic and came from Twitter. Screenshots of the hacker forum, where the data appeared and have circulated online.

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

03

Samsung Galaxy S23 Ultra will reportedly feature night vision camera

One of the most anticipated new smartphones this year, the Galaxy S23 series is about to be announced. The Galaxy S23 Ultra will feature a night vision camera and also feature a pair of 12MP cameras and a 2MP sensor. A 12MP image sensor will also be used for the front-facing camera. It isn't clear where the improvement to night photography will come from. The device will record 8K video at 30 frames per second (FPS).



<https://www.indiatimes.com/trending/wtf/woman-scammed-by-fake-russian-astronaut-loses-rs-24-lakh-581769.html>

Tesla has been slapped with a \$2 million fine in South Korea



South Korea's antitrust regulator fined Tesla 2.85 billion won (\$2.2 million) for false advertising, saying the company overstated the range of its cars in cold weather, as reported by multiple outlets including Reuters. The Korea Fair Trade Commission said at a press conference that Tesla exaggerated the driving range of its electric vehicles, failing to inform customers that cars have shorter driving ranges in lower temperatures.

<https://www.indiatoday.in/technology/news/story/netflix-to-charge-extra-fee-from-users-for-sharing-their-passwords-2287129-2022-10-19>

05

Whatsapp announces new proxy support feature

Meta Platforms Inc's WhatsApp said users of the messaging app will now be able to use proxy servers to access the service in countries where the app is blocked. A proxy server is an intermediary between users and web services and acts as a web filter that allow netizens to circumvent restrictions and censorship. WhatsApp said proxy support on the app is now officially available for users with the latest version.



<https://indianexpress.com/article/technology/tech/5g-true-5g-powered-wifi-launched-in-india-all-you-need-to-know-8224808/>

06 Tata to start manufacturing iPhones in India

Tata Group will soon start manufacturing iPhones in India because the company is almost all set to acquire a major plant in the southern part of the country. The company wants to take over Wistron's iPhone Karnataka factory and it has been in talks with this Taiwanese company for months now. It has now come to light that Tata Group will complete the deal by the end of March.



<https://www.outlookindia.com/business/rbi-launches-concept-note-to-create-awareness-about-central-bank-digital-currency-cbdc--news-228283>

TCS rolls out 100% variable pay for majority of the workforce

Tata Consultancy Services (TCS), India's largest IT services exporter, has rolled out 100 per cent variable pay for employees up to C2 grade, while employees above the grade would be awarded variable pay as per business performance, for the third quarter of FY 2022-23. An email sent from the office of the Chief Human Resource Officer of the company, Milind Lakkad, read, "A decision has been taken to pay 100 percent of the quarterly variable pay (QVA) to all employees up to C2 or equivalent grades covered under this plan."

<https://www.hindustantimes.com/technology/modi-govt-s-warning-for-zoom-users-shouldn-t-be-ignored-at-any-cost-101665656226524.html>

08 Future Google TV to get self charging and a battery free remote

TW Electronics, the UK-based company behind the reference remote used on most Android TV and Google TV devices in recent years, has introduced a new design of the remote that includes a photovoltaic panel at the bottom that allows for self-charging of the battery. According to 9 to 5 Google, the panel used in the remote uses light sources to convert that energy into electricity that can charge the battery within the device.



<https://economictimes.indiatimes.com/tech/information-tech/wipro-infosys-tech-mahindra-revoke-offer-letters-given-to-freshers-reports/articleshow/9462440.cms?from=mdr>

09 Swiggy rolls out ambulance service for delivery partners

Swiggy has been rolling out ambulance feature for its delivery partners and can reach the ambulance service instantly by tapping the SOS button on the partner app or through a toll-free number. The current average response time is 12 minutes. The programme was launched a few weeks after a Swiggy delivery partner lost his life in Noida after his scooter and a car collided.



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

Microsoft AI tool VALL-E can clone your voice from a 3-second audio



The tech world has always been fascinated by Artificial Intelligence and has highlighted its negative, as well as positive effects from time to time. Microsoft's AI program, VALL-E, has been in the limelight for its capability of cloning a voice from a 3-second audio. Microsoft introduced the program as 'a language modeling approach for text to speech synthesis (TTS)' on their demo website, created to show VALL-E's capabilities. There are ample examples showcasing VALL-E's abilities on the website.

<https://www.businesstoday.in/technology/news/story/whatsapp-services-affected-across-the-world-35077-2022-10-25>

11 Wikipedia desktop gets a new look after more than 10 years

Wikipedia is finally giving its desktop interface an updated design its first in over 10 years. The site is rolling out the new look now across most Wikipedia pages. The site initially announced the redesign in 2020, with plans to implement it by the end of 2021. It's unclear why the update was further delayed; the Wikimedia Foundation has said only that the redesign was a "long and complex process." But the goal has been to improve the overall browsing experience with incremental tweaks here and there, developed with user feedback.

<https://timesofindia.indiatimes.com/business/india-business/tata-power-hit-by-cyber-attack-says-company/articleshow/9485348.cms>

12

Asia's richest man Gautam Adani is addicted to ChatGPT

Asia's richest man Gautam Adani says he is addicted to ChatGPT, the powerful new AI tool that interacts with users in convincing and conversational way. In a LinkedIn post last week, the India tycoon said that the release of ChatGPT was a "transformational moment in the democratization of AI given its astounding capabilities as well as comical failures". The billionaire admitted to "some addiction" to ChatGPT since he has started using it.



<https://www.indiatoday.in/technology/news/story/fired-by-elon-musk-twitter-ceo-parag-agrawal-and-policy-chief-vijaya-gadde-set-to-get-around-rs-1000-crore-2298887-2022-10-29>

Users can now send 62 words per minute using new Brain-Computer Interface

13

A team of Stanford scientists claims to have tested a new brain-computer interface (BCI) that can decode speech at up to 62 words per minute, a 3.4-fold improvement on the previous record. This would be a big step towards real-time speech conversion at the speed of natural human conversation. Max Hodak, who founded the BCI company Neuralink with Elon Musk but was not involved in the study, called the research "a meaningful step change in the utility of implanted BCIs" in an email to Futurism.

<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

Indian government is planning to make Indian rupee the International Currency

The Reserve Bank of India (RBI) has enabled exports and imports to be denominated in rupees. This will internationalise the rupee which, in turn, will reduce foreign currency risks for traders and help navigate payment hurdles in trading with Russia. It will also reduce demand for dollars. The new framework provides for a market-determined exchange rate between two trading partners.



<https://indiaexpress.com/article/technology/science/researchers-are-trying-to-robot-how-to-laghi-to-improve-human-robot-conversations-8161917#:~:text=Researchers%20at%20the%20University%20of%20Columbia%20are%20using%20AI%20to%20teach%20robots%20to%20talk,Frontiers%20in%20AI%20Robotics%20and%20AI>

15

8 year old Rishi Shiv who received bal puraskar has higher IQ than Albert Einstien

Rishi Shiv Prasanna, an eight year old kid from Bengaluru, has received the prestigious Pradhan Mantri Rashtriya Bal Puraskar Award. Prasanna received the award from President Droupadi Murmu for inventing three Android applications at such a young age. Notably, Prasanna has a higher IQ than Albert Einstein, and has a validated IQ of 180, which is greater than Albert Einstein's and far higher than the normal standard of 130 for very bright people. Since the age of five, the eight-year-old has had an interest in coding. He created three apps: "IQ Test App" for youngsters, "Countries of the World", and "CHB."



<https://www.theverge.com/2022/10/24/2342716/google-chrome-windows-7-8-1-end-support>

Unknown Facts



Motorola produced the first-ever portable mobile phone.



Japan has the fastest Internet speed of 319 terabits per second.



Combining all the bitcoin mining operations worldwide is equivalent to the computing power of 3.7 million supercomputers.



An average person can blink seven times every minute when using a computer.



Jeff Bezos named his company Cadabra Inc before renaming it Amazon.

Did You Know

News of the Month

Chat GPT

Chat GPT is an AI chatbot auto-generative system created by Open AI for online customer care. It is a pre-trained generative chat, which makes use of Natural Language Processing (NLP). The source of its data is textbooks, websites, and various articles, which it uses to model its own language for responding to human interaction. Chat GPT is a highly popular AI-based program that people use for generating dialogues. The chatbot has a language-based model that the developer fine-tunes for human interaction in a conversational manner.

It's a simulated chatbot primarily designed for customer service; people use it for various other purposes. These range from writing essays to generating code.

GPT-3 (Generative Pretrained Transformer 3) is a state-of-the-art language processing AI model developed by OpenAI. It is capable of generating human-like text and has a wide range of applications, including language translation, language modelling, and generating text for applications such as chatbots. It is one of the largest and most powerful language processing AI models to date, with 175 billion parameters.

What is GPT3

The main feature of Chat GPT is generating responses like those humans would provide, in a text box. Therefore, it is suitable for chatbots, AI system conversations, and virtual assistants. It can also give natural answers to questions in a conversational tone, and can generate stories and poems.

Features of Chat GPT



World's Top CEO



Jensen Huang
Nvidia



Mukesh Ambani
Reliance



Satya Nadella
Microsoft



Shantanu Narayan
Adobe



Sundar Pichai
Google



Punit Renjen
Deloitte



Estee Lauder
Fabrizio Freda



N. Chandrasekaran
Tata



Piyush Gupta
OBS

Top Programmers in the World of All Time



Dennis Ritchie
Father of C programming language

Linus Torvalds
Developer of Linux Operating systems



Bjarne Stroustrup
Developer of C++

James Gosling
Developer of JAVA



Tim Berners-Lee
Founder of HTML, URL and HTTP

Donald Knuth
Father of Analysis of Algorithms



Ken Thompson
Developer of Unix Operating systems

Brian Wilson Kernighan
Coauthor of the AWK and AMPL
programming languages.



Richard Stallman
Developer of GNU compiler