



INTEGRAL UNIVERSITY
LUCKNOW - INDIA



DEPARTMENT OF COMPUTER APPLICATION



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JANUARY
2024

TECHNICAL COMMITTEE

1 Elon Musk's Neuralink implants brain chip in first human

Tech billionaire Elon Musk has claimed his Neuralink company has successfully implanted one of its wireless brain chips in a human. In a post on X, he said "promising" brain activity had been detected after the procedure and the patient was "recovering well".

Neuralink is a brain-chip startup founded by Musk in 2016. A device the size of a coin is surgically implanted in the skull, with ultra-thin wires going into the brain and developing a brain-computer interface (BCI). Planting the chip in the part of the brain that controls motor function would also enable people to overcome neurological disorders, the company claims.



<https://www.reuters.com/technology/neuralink-implants-brain-chip-first-human-musk-says-2024-01-29/>

3 Hearing Heat: X Announces Moderator Boost



Facing scrutiny on child safety, X (formerly Twitter) is adding 100 moderators in Austin before a congressional hearing. Lawmakers will question Big Tech companies about protecting kids online, and X's past struggles with moderation come under the spotlight.

https://techcrunch.com/2024/01/29/ahead-of-congressional-hearing-on-child-safety-x-announces-plans-to-hire-100-moderators-in-austin/?utm_source=iterable&utm_medium=email&utm_campaign=newsletter-20240124&gucounter=1

Ditch the Phone, Embrace the Rabbit

2

Forget fiddling with apps! The Rabbit R1, a retro-styled, pocket-sized AI assistant, is here to streamline your digital life. Unlike app-heavy smartphones, this unique device uses a powerful AI model to manage your existing apps directly. Imagine booking a ride, ordering food, or controlling smart home devices – all through voice commands and a simple click-wheel. Designed for focus and less distraction, the Rabbit R1 aims to be your pocket companion for a more mindful digital experience.



<https://indiaai.gov.in/article/exploring-rabbit-r1-a-pocket-sized-ai-assistant>

Double Trouble: Major Gaming Companies Face Fresh layoffs

4

The video game industry is facing a wave of job cuts, with Microsoft, Riot Games, Twitch, Discord, and Unity Software all announcing significant staff reductions. Microsoft, fresh off its acquisition of Activision Blizzard, is eliminating 1,900 roles within its gaming division. This follows layoffs at other companies like Riot (11% of workforce), Twitch (35%), Discord (18%), and Unity Software (25%).



https://techcrunch.com/2024/01/25/microsoft-lays-off-1900-employees-in-activision-blizzard-and-xbox-divisions/?utm_medium=TCnewsletter&tpcc=TCdailynewsletter

5 Japan's Lunar Flip-Flop: Upside-Down Lander Back in Action!

Japan's lunar explorer, *Slim*, stuns the world with upside-down landing! But after a week of silence, it's awake again, solar panels catching sunlight and mission resuming. A testament to Japan's space prowess and the resilience of technology.



[<https://www.bbc.com/news/world-asia-68125589>]

8 From Flop to Top 10: Threads Revives

Instagram's Threads app, once thought to be fading away, is experiencing a major revival. Downloads tripled in December, landing it a spot in the top 10 most downloaded apps on both App Store and Google Play. Is this a second chance for the close-friends app?



[https://techcrunch.com/2024/01/30/instagram-threads-triples-downloads-in-december-reaching-the-top-10-x-falls-to-no-36/?utm_medium=TCnewsletter&tpcc=TCdailynewsletter]

6 Chat Revolution: WhatsApp Breaks Down Walls, Opens Up to Other Apps



WhatsApp is shaking things up! The popular messaging app plans to let its users chat with folks on other platforms, finally escaping its closed ecosystem. Get ready for a more connected world, no app downloads needed!

[<https://indianexpress.com/article/technology/social/how-whatsapp-plans-interoperability-9148969/>]

9 Meta Shields Teens:



Meta cracks down on unwanted messages for teens on Facebook & Instagram. New limits prevent adults from messaging them directly, and Messenger restricts chats to friends & contacts only. A safer online space for young users.

[https://techcrunch.com/2024/01/25/meta-is-rolling-out-tighter-teen-messaging-limitations-and-parental-controls/?utm_medium=TCnewsletter&tpcc=TCdailynewsletter]

7 Leaked Password Exposes Mercedes Source Code

Mercedes-Benz//Daimler accidentally exposed a trove of internal data after leaving a private key online that gave "unrestricted access" to the company's source code, according to the security research firm that discovered it. Benz had their source code and files of their 'Battery Tech' on a GitHub server for months before TechCrunch pointed it out.



[https://techcrunch.com/2024/01/26/mercedes-benz-token-exposed-source-code-github/?utm_medium=TCnewsletter&tpcc=TCdailynewsletter]

10 Heart Tech Breakthrough: €12.3m Boost for Acorai

Swedish medical device startup Acorai has received a major boost, winning a €2.3 million grant and a €10 million investment offer from the European Innovation Council (EIC). This investment fuels the development of their non-invasive heart monitor, designed to improve heart failure management for millions globally. Acorai's groundbreaking heart monitor uses smart sensors and AI to track your heart health without needles or wires.



[<https://www.prnewswire.com/news-releases/heart-failure-start-up-acorai-embarks-on-the-next-vital-stage-towards-regulatory-approval-301902821.html>]

11

AI Revolution Goes Desi: Krutrim Becomes India's First Billion-Dollar Unicorn

Ola founder Bhavish Aggarwal's latest venture, Krutrim, has made history as India's first AI unicorn, valued at a whopping \$1 billion. This innovative startup is building a unique large language model trained on both English and diverse Indian languages. Get ready to interact with your AI assistant in your native tongue, as Krutrim plans to launch a multilingual conversational AI soon. This marks a significant milestone in India's AI journey, paving the way for more inclusive and localized technological advancements.



[https://techcrunch.com/2024/01/26/ola-founder-ai-startup-krutrim-unicorn-in-50m-funding/?utm_source=iterable&utm_medium=email&utm_campaign=newsletter-20240124]

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2 Million Strong: Microsoft Upskills India for the AI Age

Microsoft CEO Satya Nadella pledged to equip 2 million Indians with AI skills by 2025 through a new initiative. This "ADVANTA(I)GE INDIA" program aims to bridge the skills gap and make India an AI leader. Nadella emphasized how AI tools like Microsoft Copilot are already boosting productivity, paving the way for an AI-powered future.



[<https://news.microsoft.com/en-in/microsoft-chairman-and-ceo-satya-nadella-highlights-opportunity-for-an-ai-empowered-india-to-accelerate-inclusive-growth-and-development/>]

Meet Vyommitra: India's Female Robot Astronaut

12



India's space program gets a new crew member! Vyommitra, a female robot astronaut, will pave the way for human missions by testing systems and even keeping astronauts company on their journey. This AI-powered wonder can monitor vitals, operate systems, and even chat with its human counterparts. Get ready for the future of space exploration, made in India!

[<https://www.wionews.com/india-news/vyommitra-isro-to-launch-indias-female-robot-astronaut-into-space-ahead-of-gaganyaan-mission-686960>]

13

Jio Takes Off: Bank of America Values Ambani's Platform at \$100 Billion+

Mukesh Ambani's Jio Platforms, a telecom and digital powerhouse, has received a vote of confidence from Bank of America, raising \$107 billion valuation. This marks a 64.6% increase from its 2020 fundraising that attracted tech giants like Meta and Google. The bank expects Jio to continue its subscriber growth and expand its reach through innovative offerings like JioBharat and JioAirFiber.



[<https://techcrunch.com/2024/01/09/bofa-gives-ambanis-jio-platforms-a-100-billion-plus-valuation/>]

15

India's Fintech Giant Stumbles



India's fintech giant Paytm is reeling after the RBI banned its Payments Bank from key services. Shares have dropped for three days, hitting an all-time low. This regulatory action puts Paytm's future growth in loss, raising concerns about its financial stability.

[https://techcrunch.com/2024/02/04/paytm-is-in-flux/?utm_medium=TCnewsletter&tpcc=TCdailynewsletter]

NEWS OF THE MONTH

ISRO PSLV-C58 / XPOSAT MISSION



The Indian Space Research Organisation (ISRO) kicked off the new year with the launch of the PSLV-C58 X-ray Polarimeter Satellite (XPoSat) mission on January 1, 2024.

ISRO's PSLV-C58 has launched XPOSAT Satellite into an Eastward low inclination orbit on January 01, at 09:10 Hrs IST. After injection of XPOSAT, the P54 stage will be re-started twice to reduce the orbit into 350 km circular orbit to maintain in 3-axis stabilized mode for Orbital Platform (OP) experiments. The PSLV Orbital Experimental Module-3 (POEM-3) experiment will be executed meeting the objective of 10 identified payloads, supplied by ISRO and IN-SPACe.

XPOSAT

XPoSat (X-ray Polarimeter Satellite) is the first dedicated scientific satellite from ISRO to carry out research in space-based polarisation measurements of X-ray emission from celestial sources. The Satellite configuration is modified from the IMS-2 bus platform. The Configuration of the mainframe systems are derived based on the heritage of IRS satellites.



OBJECTIVES

- To measure polarisation of X-rays in the energy band 8-30keV emanating from about 50 potential cosmic sources through Thomson Scattering by POLIX payload.
- To carry out long term spectral and temporal studies of cosmic X-ray sources in the energy band 0.8-15keV by XSPECT payload.

STRATEGIC TRENDS OF 2024

1

AI TRUST, RISK AND SECURITY MANAGEMENT

(AI TRISM) is emerging as a prominent approach, offering a comprehensive approach to governance, trustworthiness, fairness, reliability, robustness, transparency, and data protection for AI models.

2

INDUSTRY CLOUD PLATFORMS

(ICPs) can revolutionize the way organizations approach IT infrastructure and solutions. These platforms seamlessly integrate underlying SaaS, PaaS, and IaaS services into a unified offering crafted specifically for distinct industries.

3

INTELLIGENT APPLICATIONS

Intelligent Applications, infused with AI capabilities and diverse data sources, are revolutionizing organizational interactions with users. They offer real-time insights, personalized experiences, and predictive features beyond traditional functionalities.

4

MACHINE CUSTOMERS

Businesses will cater not only to human customers but also to machines. Proliferating connected products with purchasing autonomy in 2024 and beyond will disrupt trillions in sales as non-human economic actors impact business models.

5

AUGMENTED CONNECTED WORKFORCE

(ACW) seamlessly integrates intelligent technologies and analytics to empower employees with the tools and insights crucial for success.

6

CONTINUOUS THREAT EXPOSURE MANAGEMENT

CTEM addresses both patchable and unpatchable exposures, recognizing the need for comprehensive risk mitigation.

7

SUSTAINABLE TECHNOLOGY

Effective implementation of Sustainable Technology hinges on selecting relevant technologies aligned with industry priorities and stakeholder expectations.

8

AI-AUGMENTED DEVELOPMENT

AI-augmented development significantly boosts developer productivity, allowing them to concentrate on higher-level tasks like crafting innovative business applications.



DATA PRIVACY DAY

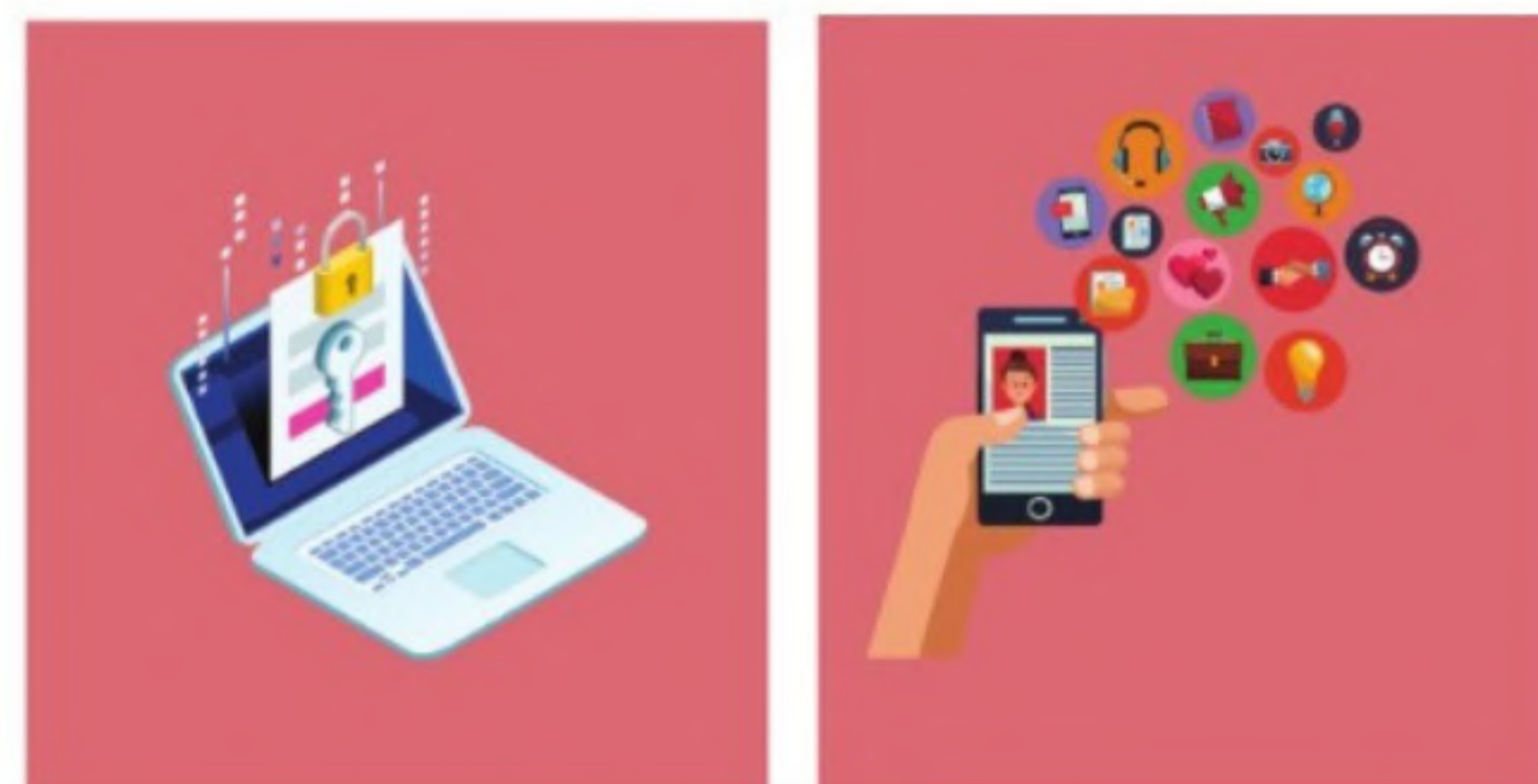
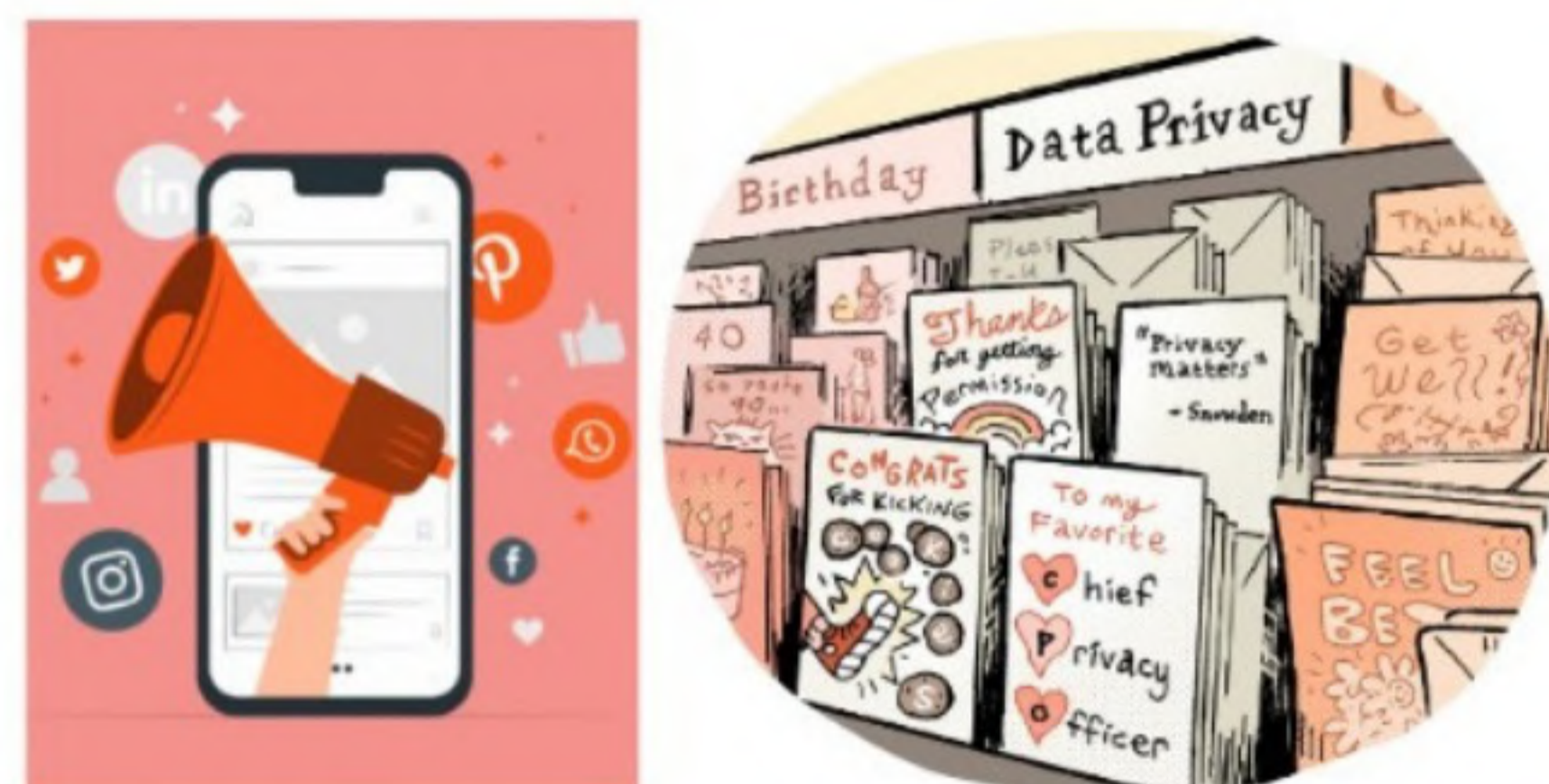
Data Privacy Day on January 28 reminds us to focus on keeping our personal information safe. In our digital world, we often don't think much about privacy until our data is at risk. This article explores the history of Data Privacy Day, explains the difference between data security and privacy, and emphasizes the significance of celebrating this day.

Data Privacy Day 2024 Theme

The theme for Data Privacy Week 2024 is "Take Control of Your Data". According to the National Cybersecurity Alliance, engaging in online activities generates a vast amount of data, and individuals possess the authority to assert control over their own data.

History of Data Privacy Day

The need to keep personal information private isn't new. For decades, companies and groups have collected, used, and sometimes sold our personal data for various reasons. Digital technology has made it easier to collect even more data, legally and illegally. With 4.66 billion internet users worldwide, a lot of unprotected data is waiting to be taken.



WIKIPEDIA DAY



History of Wikipedia Day

Wikipedia Day on January 15 is an occasion that celebrates the birth and formation of the site. Almost every single person in the world knows what Wikipedia is. When we search for something, a Wikipedia link is the first thing that pops up on our search engines. Creative Commons developed the free and open copyright system which Wikipedia uses, and Wikipedia is the most enthusiastic community of the free media which Creative Commons promotes.

The very essence of Wikipedia is about getting free access to information online. Wikipedia Day would be the perfect time to do a little bit of online research about interesting topics. There was a time when students and researchers would need to go through tons of books in a library to attain information regarding a certain topic. This was the time when the internet had not reached the heights of innovation it has today. However, the world as we know it, completely evolved when this search engine was formed, and numerous websites were created to provide people with information regarding several topics.

