



INTEGRAL UNIVERSITY
LUCKNOW - INDIA



DEPARTMENT OF COMPUTER APPLICATION



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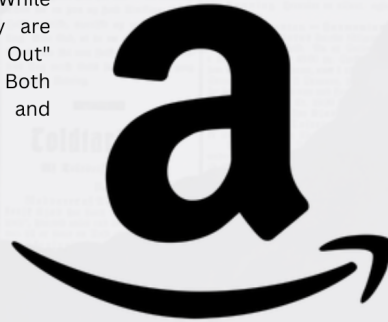
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TECHNICAL COMMITTEE

1

Amazon Expands Smart Cart Sales to Retailers

Amazon is offering its Dash Cart technology, which lets shoppers skip checkout lines, to other stores. This follows a similar move with their "Just Walk Out" cashierless system. While Amazon is expanding Dash Carts, they are scaling back their own use of "Just Walk Out" due to the high cost and complexity. Both technologies rely on computer vision and sensors to track purchases.



[https://www.nbc.com/2024/04/17/amazon-starts-selling-smart-grocery-carts-to-other-retailers.html]

3

The End of the Smartphone Era? A Look Ahead

Prominent figures in the tech industry are predicting a significant shift away from smartphones within the next decade. Leading the charge are augmented reality glasses and wearable AI assistants, offering a more integrated and intuitive way to interact with technology. This evolution may culminate in brain implants, blurring the lines between human and machine interaction. However, ensuring responsible AI development and data privacy remain paramount as we navigate this exciting future.



[https://analyticshindiamag.com/smartphones-will-be-obsolete-in-10-years-says-metas-ai-chief/]

Devin AI: Real or Fake? The Dev Community Investigates

2

Devin AI, developed by Cognition Labs, is a groundbreaking tool that promises to revolutionize the software development landscape by handling end-to-end tasks without human intervention. However, recent articles, discussions, and viral videos have cast doubts on these claims, stating that the developers might have given Devin fake or at least hyped capabilities. Devin is designed to function as an independent AI teammate, equipped with a suite of developer tools, including a shell, code editor, and a browser within a secure computing environment. However, skepticism has arisen within the developer community, fueled by a viral video and several articles that claim Devin's abilities might have been overstated.



[https://www.codemotion.com/magazine/ai-ml/is-devin-fake/]

Lenovo Unveils Project Crystal: Transparent Crystalline Laptops

4

Lenovo has unveiled its Project Crystal concept laptop, a visionary exploration of mobile computing design. This device features a groundbreaking 17.3-inch transparent microLED display, creating the illusion of images floating in mid-air. Furthering the futuristic aesthetic, Project Crystal incorporates a transparent keyboard. The laptop leverages Artificial Intelligence Generated Content (AIGC) technology, allowing for the overlay of information onto surrounding objects. Project Crystal serves as a testament to the evolution of microLED technology and its potential to reshape the future of mobile computing.



[https://www.trendhunter.com/trends/lenovo-project-crystal]

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Tech Layoffs Continue, But Pace Slows in April

Tech layoffs continue, but at a slower pace. 50 companies cut 21,473 jobs in April, down from prior months. Tesla (14,000 layoffs) cited competition and slumping sales. Instant delivery service Getir shut down in US, UK, and Europe, impacting 6,000 jobs. Indian tech companies also saw cuts, with health startup Healthify laying off 150 employees.



[https://indianexpress.com/article/technology/tech-news-technology/tech-layoffs-2024-over-20k-sacked-in-april-9301477/]

8

Talking Mona Lisa? AI Makes Fake Videos Easy, Raises Concerns

Microsoft's new AI, VASA-1, creates hyper-realistic videos from just a photo and voice recording. It can even make the Mona Lisa rap! This is great for games and movies, but scary for deepfakes. VASA-1 could be used to create fake videos of people saying or doing things they never did.



[https://economictimes.indiatimes.com/tech/technology/et-explainer-all-you-need-to-know-about-microsofts-new-image-to-video-ai-model-vasa-1/articleshow/109525042.cms?from=mdr]

Spaceman Elon Says, 'Aliens Unlikely, Super Smart AI Coming'

6



Elon Musk thinks aliens probably aren't hanging out on Earth, even though he loves space. He's more worried about super smart computers - they need to be honest, not like the one in the movie "2001: A Space Odyssey" that lied and caused trouble!

[https://indianexpress.com/article/technology/artificial-intelligence/elon-musk-says-he-has-never-seen-evidence-of-aliens-9320255/]

WhatsApp Testing Offline File Sharing: No Wifi, No Problem!

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Sharing photos and videos on WhatsApp might soon be possible even without an internet connection. The app is reportedly testing a new feature that lets users share files via Bluetooth in a way similar to ShareIt. This feature uses encryption to ensure safe and secure data transfer. While an official release date is unknown, it's currently in beta testing and could be a valuable addition for users who often share files offline.

[https://www.msn.com/en-in/money/news/soon-you-may-not-need-internet-to-send-photos-and-files-on-whatsapp/ar-AA1nuOYn]

7

Blinkit Partners with Sony for Instant PlayStation 5 Slim Delivery

Sony's latest PlayStation 5 Slim Series can now be ordered through Blinkit, with 10-minute delivery. The console offers two variants, priced at ₹44,990 and ₹54,990, and boasts advanced features like x86-64-AMD Ryzen Zen 2 CPU, 16GB of GDDR6 RAM, and 1TB of SSD storage



[https://techcrunch.com/2024/03/26/elon-musk-says-all-premium-subscribers-on-x-will-gain-access-to-ai-chatbot-grok-this-week/]

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Google Unveils Powerful New AI, "Gemini"

Google releases "Gemini," its most powerful AI yet. Unlike prior models, Gemini can seamlessly understand and combine various information formats like text, code, and images. This "native multimodality" makes it efficient and runs on devices from data centers to phones. Safety is a focus, with bias checks and collaboration with experts to ensure ethical use. Gemini is being integrated into various Google products, including Bard (search assistant).



[https://www.artificialintelligence-news.com/2023/12/06/google-next-gen-ai-model-gemini-outperforms-gpt-4/]

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Indian Students Win NASA Rover Challenge

Two Indian student teams won prestigious awards at NASA's Human Exploration Rover Challenge (HERC). The KIET Group of Institutions from Delhi-NCR received the "Crash and Burn" award, and Kanakia International School from Mumbai earned the "Rookie of the Year" award. Their innovative rovers showcased India's commitment to STEM education and young talent.



Indian Students Shine at NASA's Human Exploration Rover C

[https://currentaffairs.adda247.com/indian-students-shine-at-nasas-human-exploration-rover-challenge/]

IIT Jodhpur's Game-Changer: Nano Sensor Revolutionizes Disease Tracking

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॥ त्वं ज्ञानमयो विज्ञानमयोऽसि ॥

Researchers at IIT Jodhpur have developed a nano-sensor to detect cytokines, vital proteins regulating cellular functions. The technology, led by Prof. Ajay Agarwal, uses Surface Enhanced Raman Spectroscopy for rapid and precise detection of cytokines, reducing mortality rates. The sensor is integrated with artificial intelligence (AI) for enhanced diagnosis, enabling faster and more robust diagnoses of autoimmune diseases and bacterial infections, guiding tailored medical treatments based on real-time disease progression tracking.

[https://currentaffairs.adda247.com/breakthrough-in-healthcare-iit-jodhpur-unveils-nano-sensor-for-disease-tracking/]

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Hanooman AI Revolutionizes Language Understanding in India

Hanooman AI, introduced in India, stands out for its proficiency in comprehending 98 languages. Developed by 3AI Holding, this versatile platform targets sectors like healthcare, governance, finance, and education. With ambitions to engage 200 million users in its inaugural year, Hanooman AI aims to democratize AI accessibility across the nation.

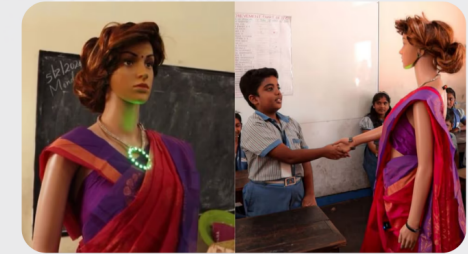


[https://daily.dev/blog/what-is-devin-the-ai-software-engineer-everyone-is-talking-about]

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India Plans New AI Law to Safeguard Content Creators' Rights

The Indian government is drafting a new AI law to protect news publishers and content creators, aiming to address intellectual property rights and fair compensation concerns. This legislation, part of the Digital India Bill, responds to global trends and industry demands for equitable treatment in the digital landscape.



[https://www.businesstoday.in/technology/news/story/dressed-in-saree-meet-indias-first-ever-ai-teacher-robot-named-iris-420551-2024-03-07]

India's Tech Sector Set to Hit \$254 Billion in FY 2024, Driven by Global Capability Centres

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India's technology sector is forecasted to achieve \$254 billion in revenue for the fiscal year 2024, marking a 3.8% growth from the previous year. A significant driver of this growth is the expansion of Global Capability Centres (GCCs). The country hosts over 1,600 GCCs, a number expected to exceed 2,500 by 2030, which will employ more than 4.5 million people



[https://nasscom.in/knowledge-center/publications/technology-sector-india-strategic-review-2024]

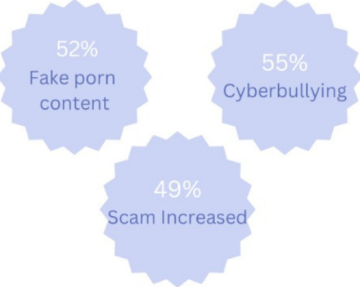
News of the Month

The Deepening crisis of Deepfake

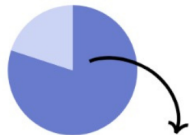
Deepfakes have arisen as a major threat in an era of rapidly evolving digital technologies. These powerful artificial intelligence products not only call into question the concept of truth in the media, but they also represent major concerns, particularly through gender-based violence. In response to this threat, regulatory rules governing platform liability have been strengthened, and there has been a greater emphasis on removing harmful content.

75% Indians have viewed some deepfake content in last 12 months, says McAfee survey

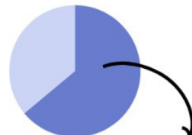
The disease of deepfakes has now spread to our beliefs and systems. This technique, which started from the seeds of obscenity, has now spread to blackmailing and scamming. According to a recent survey, one in every four Indians has had this issue. The situation in other countries is no different. Let us learn about the imminent threat to human knowledge and how to avert it:



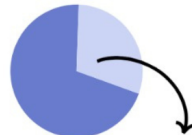
18% became victims of scam
 22% saw political deepfakes
 31% wasted money
 38% face scam
 40% voice clone



80% People are more concerned about Deepfake now than in 2023.



64% said AI made it harder to spot online scams.



30% Believe that they can spot AI.

Ethical Principles to Follow When Using Deepfakes

Obtaining Consent: Formal permission should be obtained from the voice owner before voice cloning. Public APIs should be avoided as they can result in a lack of control over who is using voice cloning technology and for what purpose.

Background Check: Deepfake voice cloning service providers should only work with clients who have a good reputation and adhere to stringent ethical norms.

Labeling: Any deepfake voice or synthetic content should be clearly labeled as such to avoid confusion and fraud.

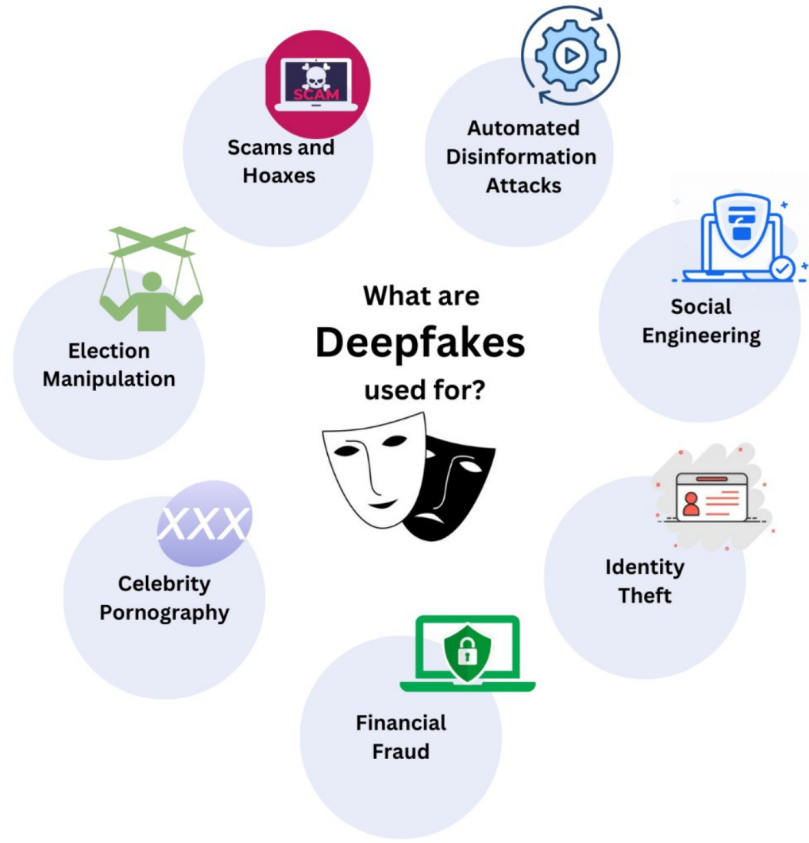
Deep Laws:

photo/video without permission
3 years jail
2 lakh fine

IT ACT 66E

Made or shared obscene photos
3 years jail
5 lakh fine

IT ACT 67





NATIONAL EMAIL DAY

National Email Day, on April 23, is an initiative of the leading email verification and validation tool, [ZeroBounce](#). The company chose the date of April 23 as a salute to Ray Tomlinson, known as the inventor of email.



HISTORY OF NATIONAL EMAIL DAY

National Email Day was first celebrated in 2022. Before Tomlinson cracked the code, digital messaging was only possible between users on the same computer. To enable between computers on different hosts, Tomlinson had the idea of inserting the @ sign in the username. It's the same familiar protocol we use today.

The Internet Hall of Fame even acknowledges Tomlinson's achievement. In the decades since Tomlinson sent that first message, technology has continued to evolve, adapting to an increasingly digital world. Today, it's a vital tool for business and personal use.

NATIONAL EMAIL DAY TIMELINE

1971

The First Email Is Sent

American computer programmer Ray Tomlinson sends the first email from one computer to another.

2016

ZeroBounce Is Founded

Email validation service and deliverability toolkit ZeroBounce is founded by Liviu Tanase.

2018

Going Places

ZeroBounce is the recipient of the Affy Award for Outstanding Achievement for Internet.

2020

Rising to the Top

ZeroBounce takes no. 40 on the Inc. 5000 list of the fastest-growing companies in America.

2022

Esteemed Recognition

ZeroBounce ranks at number 52 on the Inc. 5000 Regionals Southeast list, "Inc." magazine

2022

A Holiday Is Born

The first-ever National Email Day is celebrated.