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INTEGRAL UNIVERSITY
LUCKNOW - INDIA

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SUSTAINABLE DEVELOPMENT GOALS

DEPARTMENT OF COMPUTER APPLICATION

TECH DOSE

February 2024

TECHNICAL COMMITTEE

1. Meta's Disturbing Failure: Allowing Child Exploitation on Facebook and Instagram

In a shocking revelation, investigations reveal that Meta knowingly permits parents to exploit their children for financial gain on Facebook and Instagram. Despite staff recommendations, the company allegedly neglects key safety measures, allowing parent-managed minor accounts to cater explicit content to pedophiles. The company's moderation tools and inadequate responses further highlight serious concerns about child protection on its platforms.

2. Windows 11 Unveils AI-Powered Photo Eraser Feature for a Seamless Editing Experience

Microsoft introduces "Generative Erase," an innovative feature in the Photos app for Windows 11 Arm64 devices. Following in the footsteps of Google and Samsung, this tool allows users to effortlessly remove backgrounds and enhance photos. Currently available for Windows Insiders, the update promises a more streamlined editing process, but questions linger about potential watermarks or metadata for AI-enhanced images.

3. Stack Overflow and Google Cloud Join Forces for Next-Gen AI-Powered Development

In a groundbreaking partnership, Stack Overflow and Google Cloud are set to empower developers with AI-driven capabilities. The collaboration integrates Gemini for Google Cloud with Stack Overflow, offering developers streamlined access to trusted knowledge and coding assistance. This multi-dimensional alliance aims to enhance productivity, foster innovation, and advance socially responsible AI, combining Stack Overflow's vast developer community with Google Cloud's cutting-edge AI technology. The partnership promises new integrations and capabilities, previewing at Google Cloud Next in April 2024.

4. European Media Firms Launch €2.1 Billion Lawsuit Against Google Over Alleged Ad Practices

Thirty-two European media companies, including Axel Springer and Schibsted, have filed a €2.1 billion lawsuit against Google, claiming the tech giant's advertising practices led to substantial financial losses. The coalition argues that Google's alleged misconduct resulted in a less competitive market, impacting ad revenues and ad tech service fees. Citing Google's past fines and legal challenges, the media group seeks compensation and aims to strengthen the European media landscape. Google dismisses the claims as "speculative and opportunistic," pledging to oppose the lawsuit vigorously.

5 | OpenAI claims the Times cheated to get ChatGPT to bring up articles

OpenAI has filed a motion to dismiss several claims in The New York Times' copyright infringement lawsuit, alleging the media outlet used "deceptive prompts" and exploited a bug in ChatGPT. OpenAI argues that the Times fed articles directly to the chatbot to elicit exact passages and misrepresented the use of its products. The motion seeks to dismiss allegations of direct copyright infringement, contribution to infringement, failure to remove infringing information, and unfair competition by misappropriation. The legal battle highlights the ongoing challenges in the AI industry as it navigates copyright issues and potential legal ramifications.

[https://www.theverge.com/2024/2/27/24084843/openai-new-york-times-dismiss-copyright-claims-lawsuit]

ISRO's NavIC: India's Answer to GPS | 6

The Indian Space Research Organisation (ISRO) has developed NavIC, a regional navigation system similar to GPS but owned and operated in India. NavIC provides accurate and extensive coverage of the Indian geography, requiring devices with compatible microchips to interpret its signals. Currently reliant on seven satellites, NavIC's infrastructure is expected to expand, enhancing its navigation capabilities.

[https://www.equitymaster.com/profit-hunter/detail.asp?date=02/21/2024&story=1&title=Google-Competitor-in-Indias-Tech-Revolution#:~:text=ISRO's%20NavIC%20-%2D%20Answer%20to%20GPS,owned%20and%20operated%20in%20India.]

7 | India's Finance Minister Emphasizes Digital Public Infrastructure in Budget Speech

During the Interim Budget, Finance Minister Nirmala Sitharaman highlighted the importance of Digital Public Infrastructure (DPI) in India's modern economy. She emphasized DPI's role, including Aadhaar and UPI, in formalizing the economy. UPI transactions alone exceeded 6821.26 million in the first 17 days of January 2024. Sitharaman acknowledged DPI's fiscal support and its positive impact on transactions and value in 2022. DPI has gained international recognition, with over 51.11 crore accounts, resulting in significant savings for the Indian government.
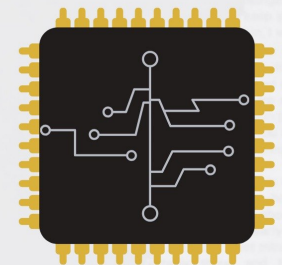
[https://www.wionews.com/india-news/budget-2024-sitharaman-calls-digital-public-infrastructure-new-factor-of-production-686031]

8 | Reliance Industries and Indian Universities Unveil Multilingual AI, BharatGPT

Reliance Industries, alongside top Indian engineering schools, introduces BharatGPT, a multilingual AI model called Hanooman. Developed in collaboration with Indian Institute of Technology universities, Hanooman aims to serve various sectors including healthcare, governance, finance, and education, catering to India's diverse linguistic landscape. Powered by Reliance Jio, it also offers speech-to-text capabilities, marking a unique public-private partnership in India's AI sector.

https://www.businesstoday.in/technology/news/story/coming-up-next-month-codenamed-hanooman-indias-own-chatgpt-backed-by-mukesh-ambani-418326-2024-02-21

Google Set to Begin Pixel Smartphone Production in India Next Quarter | 9

Google plans to produce Pixel smartphones in India from next quarter, starting with Pixel 8 Pro. The move aims to diversify its supply chain, tap into India's consumer market, and reduce dependence on China. Google's strategy aligns with the industry trend of localizing production for supply chain resilience. Additionally, the company introduces Gemini 1.5 Pro, an upgraded AI model, showcasing its commitment to advancements in generative AI.

[https://www.livemint.com/technology/tech-news/googles-pixel-production-to-begin-in-india-aims-to-ship-over-10-million-units-in-2024-report-11708578634624.html]

10 | India Approves $15B Investment in Three Semiconductor Plants

India has greenlit the construction of three semiconductor plants with a total investment exceeding $15 billion. Tata Electronics, Tata Semiconductor Assembly and Test, and CG Power are leading the projects, focusing on chip fabrication, advanced packaging technologies, and chip specialization for various applications. The initiative aims to establish India as a major chip hub, creating 20,000 direct jobs and 60,000 indirect jobs. Construction is set to commence within the next 100 days.

[https://www.cnbc.com/2024/03/01/india-boosts-chip-ambitions-okays-plants-with-15-billion-in-investments.html]

11 Dodge Charges into the Future with the 2024 Electric Charger Daytona

Dodge's 2024 Electric Charger Daytona has electrified enthusiasts with its 670 horsepower, 400-volt system, and 100.5kWh battery. Boasting acceleration from 0–60mph in 3.3 seconds, this all-electric muscle car, featuring dual motors and a playful touch with external speakers, signals Dodge's commitment to an electrified future. The Charger offers two trims, R/T and Scat Pack, with a focus on performance over extended range. As Dodge embraces electric transformation, the Charger EV stands out with power, speed, and a bold design on the STLA Large platform.

[https://www.theverge.com/2024/3/5/24087633/dodge-charger-daytona-ev-specs-photos-muscle]

Mill Unveils Second-Gen Smart Trash Can: Faster, Quieter, and Chicken Feed Ready 12

The Mill is a smart kitchen trash can that grinds up food scraps and uses sensors and AI built into its bin to manage your food waste efficiently.

Mill's second-generation smart trash can tackles concerns from its predecessor. With a faster grind time of 2.5 hours and increased efficiency, it processes 40 pounds of scraps. The updated model now fulfills its promise of turning waste into chicken feed, as the company obtains its feed license. Available for purchase at $999 or on a rental basis, Mill offers an eco-friendly solution to food waste without mandatory subscriptions.

[https://www.theverge.com/2024/3/5/24091220/mill-smart-kitchen-trash-can-second-generation-price-specs]

13 WhatsApp Introduces New Search by Date Feature for Messages

WhatsApp, Meta's popular messaging platform, has unveiled a new feature that enhances the app's search capabilities. This latest addition allows users to search for messages based on specific dates, in an attempt to offer users a more efficient way to navigate through extensive chat histories. The new 'Search by Date' feature allows users to choose a specific date to find the messages exchanged on those particular days. It is likely to help users retrieve specific information from past conversations more smoothly as opposed to endless scrolling.

https://www.gadgets360.com/apps/news/whatsapp-search-by-date-feature-details-android-ios-meta-mark-zuckerberg-5149859

14 Google's New Fun Stuff: Chat with Gemini, Write on Docs, and More!

Google has some cool updates for your phone! Now, you can chat with Gemini in the Messages app. It's like texting a friend. Also, when you drive, Android Auto can help you read and reply to long messages. There are new features in Lookout and Maps for people who can't see well. They use smart technology to tell you about things around you. And guess what? You can now draw on Google Docs with different colors! It's like using a pen on paper, but on your phone. Google is making things more fun and useful for everyone!

[https://www.theverge.com/2024/2/26/24082279/google-gemini-messages-android-auto-google-docs]

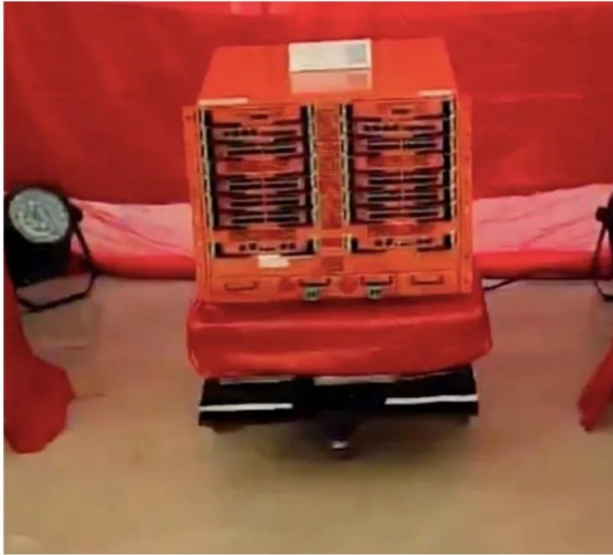## SAP Faces Backlash Over Return-to-Office U-Turn 15

Over 5,000 SAP employees are unhappy as the company shifts from remote work to a three-day office requirement globally. Employees feel betrayed after being previously encouraged to work from home. SAP's CEO cites concerns about company culture and teamwork with remote work. The move reflects a broader trend of companies adjusting remote work policies.

[https://www.businesstoday.in/technology/news/story/we-feel-betrayed-sap-employees-rebel-against-companys-no-wfh-policy-416092-2024-02-04]

News of the Month

ASHWINI VAISHNAW LAUNCHES INDIA'S FASTEST ROUTER WITH 2.4TBPS SPEED

India's Union Minister for Electronics and IT, Ashwini Vaishnaw , has unveiled the country's fastest router in Bengaluru.

The indigenously designed and developed device boasts a capacity of 2.4 terabits per second (tbps)/MPLS Router Powered by a secured network Operating System.
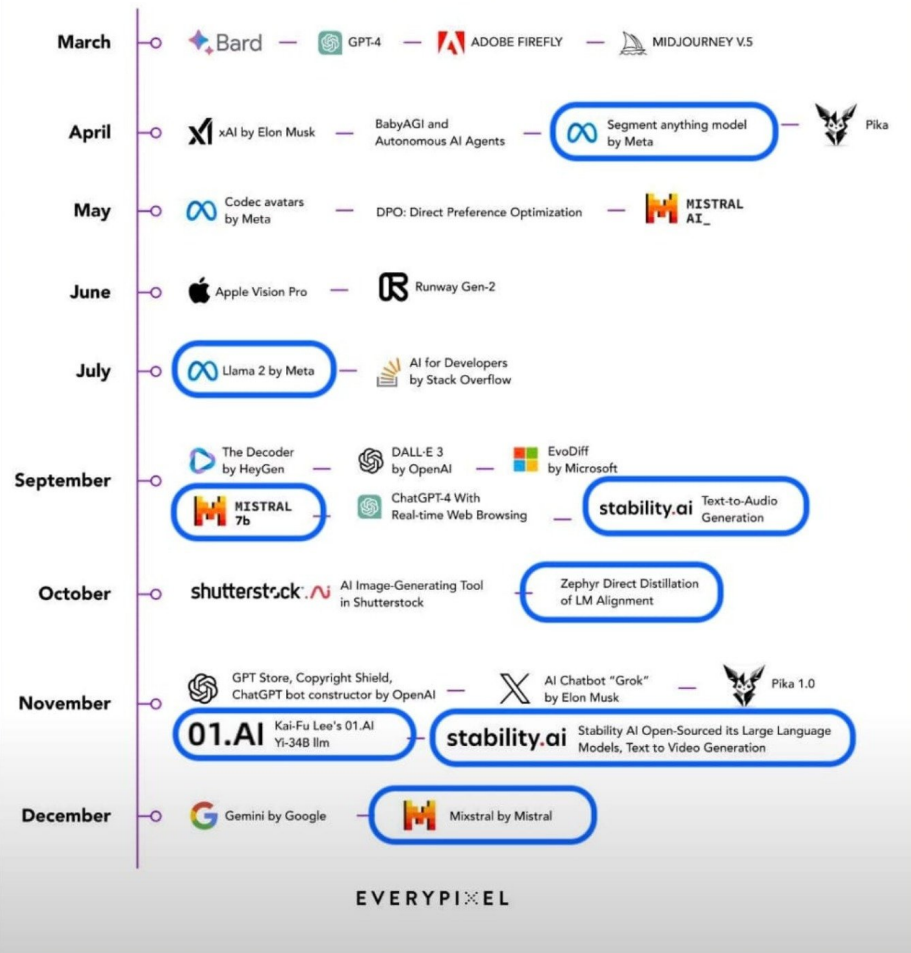
The Department of Telecommunications, Centre For Development Of Telematics (C-DOT), and Nivetti Systems have collaborated to create the ultra-fast router.

Speaking at the launch event, Vaishnaw described it as a "matter of pride" and a crucial step in Prime Minister Narendra Modi's Digital India vision.

Impact on India's digital infrastructure

The router, with its 2.4tbps data capacity, signifies a breakthrough in network technology.

It is expected to strengthen India's digital infrastructure and meet the increasing demand for high-speed data processing and transmission.

According to Vaishnaw, the government has implemented various policies under PM Modi's leadership to foster innovation.

The introduction of the high-speed router marks a major milestone in India's quest to become a global tech and manufacturing powerhouse.

Vaishnaw emphasized the shift from traditional manufacturing methods to those driven by software, innovation, and intellectual talent.

Thousands of high-speed router units are exptected to be installed across the country in the coming months.

The Most Remarkbale Releases of 2023

EVERYPIXEL

Free Open Source Software Month

Free Open Source Software or FOSS is celebrated every year in February to appreciate software that is both free and open-source where any user has a license to use the software and the source code is shared so that people are encouraged to voluntarily improve its design. It maintains the software user's civil liberty rights, protects their privacy, and gives users more control over their own hardware. Although there are strong similarities between free-software licenses and open-source-software licenses, advocates of each often have disagreements with one another. FOSS was created on neutral ground.

Facts about Open Source Software

Open Source Software (OSS) is Worldwide and Diverse

Open Source Software is developed by hobbyists, students, large corporations, and everyone in between from all corners of the globe, highlighting the diverse community behind these projects.

The Internet Runs on Open Source Software

The Internet as we know it wouldn't exist without open source software - from server technologies like Apache and NGINX, to the Linux operating system that underpins many web servers.

Some Biggest Tech Companies Actively Support Open Source

Many large tech companies, including Google, Facebook, and Microsoft, are actively involved in the open source community where they contribute to existing projects or open-source their own tools.

Free Open Source Software Month Timeline

1983
GNU Project begins
The development of the Linux kernel by Linus Torvalds begins, which eventually forms the basis of the Linux operating system.

1991
Open Source Definition
Richard Stallman announces his intention to create a whole system-compatible alternative to Unix, which becomes the GNU Project.

1998
Linux Kernel Development
The term "open source" is officially adopted and the Open Source Definition is created by the Open Source Initiative.

2004
Ubuntu Launch
The first release of Ubuntu, a popular open-source Linux distribution, kickstarted by Mark Shuttleworth and Canonical Ltd.

2008
Android Open Source Project
The Android Open Source Project (AOSP) is set up by Google, leading to a boon in open-source mobile operating systems.

2013
GitHub Popularity Increase
GitHub, a web-based platform for version control and collaboration, gains widespread recognition, becoming a key player in open source software development.