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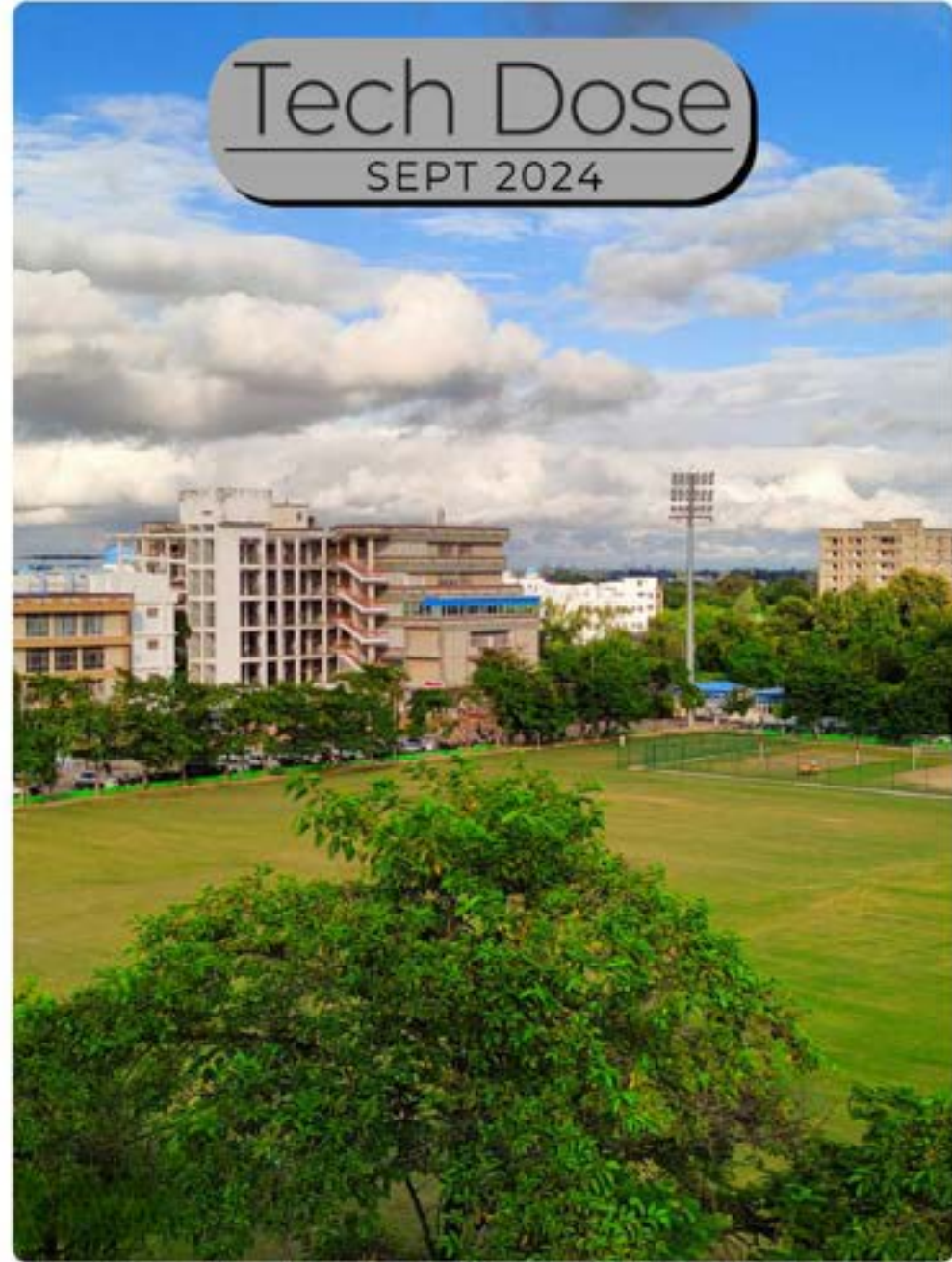
DEPARTMENT OF COMPUTER APPLICATION



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Tech Dose
SEPT 2024



TECHNICAL COMMITTEE

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US considers breakup of Google in landmark search case

In a landmark case, a judge found in August that Google, which processes 90% of U.S. internet searches, had built an illegal monopoly. The Justice Department's proposed remedies have the potential to reshape how Americans find information on the internet while shrinking Google's revenues and giving its competitors more room to grow.



<https://www.bvcmint.com/technology>

3

Nobel physics prize 2024 won by AI pioneers John Hopfield and Geoffrey Hinton

- Prize awarded for work laying foundation for machine learning
- Hinton quit Google last year to speak more freely about dangers of AI
- Princeton professor Hopfield created an associative memory that can store and reconstruct images
- Physics second award in this year's Nobel line-up.
- Prizes announced through course of week



<https://www.bbc.com>

TikTok sued by 13 states and DC, accused of harming younger users

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TikTok faces new lawsuits filed by 13 U.S. states and the District of Columbia on Tuesday, accusing the popular social media platform of harming and failing to protect young people. The lawsuits filed separately in New York, California, the District of Columbia and 11 other states, expand Chinese-owned TikTok's legal fight with U.S. regulators, and seek new financial penalties against the company. The states accuse TikTok of using intentionally addictive software designed to keep children watching as long and often as possible and misrepresenting its content moderation effectiveness.

<https://www.abc9.com/>

Adobe to offer free app to help with creator attribution amid AI boom

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Adobe , opens new tab said on Tuesday it will offer a free web-based app starting next year, aimed at helping the creators of images and videos to get credit for their work used in AI systems. Since 2019, Adobe and other technology companies have been working on what the firms call "Content Credentials", a sort of digital stamp for photos and videos around the web to denote how they were created. TikTok, which is owned by China's ByteDance, has already said it will use Content Credentials to help label AI-generated content.

<https://thehill.com/tech>

5

Amazon unveils its most advanced fulfillment centre in the U.S., redefining robotics and logistics



Amazon's introduction of these robotics, including the fully autonomous mobile robot Proteus, is expected to reduce fulfillment processing times by 25% and improve shipping accuracy. Spanning over three million square feet, the new facility integrates state-of-the-art robotics technology to revolutionize logistics, with plans to employ 2,500 people at full capacity.

<https://www.bbc.com/technology>

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Intel debuts Core Ultra 2005 series: Alenabled desktop processors with enhanced gaming and energy efficiency

Intel unveils the Core Ultra 2005 series, the first AI-powered desktop processors, combining top-tier performance with cutting-edge energy efficiency.



<https://www.bbc.com/technology>

Samsung workers strike in Chennai

6

About two-thirds of the 1,800 employees at one of South Korean electronics giant Samsung's flagship factories in Chennai, have been striking work for a month now, demanding higher wages, an eight-hour work day, better working conditions and for the recognition of their recently formed labour union — the Samsung India Workers Union, or SIWU.



<https://www.bbc.com>

Google will now allow users to send video messages in Chat

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Google has unveiled a new feature in Google Chat allowing users to send video messages, aiming to enhance communication flexibility. The feature is currently available on the web with plans for mobile integration soon.

<https://www.bbc.com>

7

Tesla 'We, Robot': Elon Musk reveals new Robovan, a mini bus without a driver or steering wheel



The Robovan is designed as a multi-purpose vehicle with the ability to transport large groups, making it suitable for both passenger and cargo transportation.

<https://www.ars.com>

10

AI tool helps tailor diabetes treatment

A new artificial intelligence (AI) tool is being used to help diabetes patients in Bradford avoid the worst health complications. The AI model aims to help clinicians choose a treatment plan such as a particular diet or exercise regime tailored to each patient.



<https://www.ars.com>

11 Good, free, fun: The simple formula that has made Duolingo a daily habit for millions

Perhaps no app has mastered user loyalty quite like Duolingo, the gamified language-learning platform 34 million people a day can't put down.



<https://www.scoop.intel.com/>

Uber announces AI-assistant for driver queries, will make Uber Green fully electric in 40 cities

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Uber is now doubling down on AI. Uber drivers are adopting EVs five times faster than the average motorist in the U.S., Canada and Europe. Uber is making its "Uber Green" service fully electric in several cities across the globe. So far, Uber Green included both electric and hybrid vehicles.

<https://www.bbc.com/>

13 Zerodha posts strong FY24 profits, but expects big slow down with new regulations

Online discount brokerage firm Zerodha has recorded a total revenue of ₹8,320 crore and a profit of ₹4,700 crore in the financial year 2023-24 (FY24). The figures are up by 21% and 62% as compared to previous fiscal year



<https://www.zerodha.com/technology>

14 Apple to open more India stores as sales surge

Apple is looking to accelerate its India retail strategy, with the company announcing plans to open 4 more Apple Retail stores in the country. This comes on the back of record India sales that Apple registered in recent financial results, surge in footprints across its two retail stores in the country and a push to diversify manufacturing from China to India.



<https://www.bbc.com/>

Gmail introduces new 'summary cards' to help de-clutter your inbox

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Gmail users may find their inbox streamlined courtesy of Google's newest revamp to its popular email service. The company announced in a blog post that it is bringing a revamp to its summary cards feature "Receipts, bills, travel confirmations, dinner reservations – important details often get scattered amongst apps and emails. While you can count on your Gmail inbox to hold all this valuable information, the sheer volume can be overwhelming. We get it".

<https://thebexportal.com/2024/02/02/gmail-introduces-new-summary-cards-to-help-de-clutter-your-inbox/>

BATTLE OF AI

In recent years, the field of AI has seen significant progress, with OpenAI emerging as its substitute. Once it was considered a company that would shape the future. What went wrong that caused it to be surrounded by controversies for the wrong reasons?

Deviation from the Goal

OpenAI was founded as a non-profit organization. Its founders included Sam Altman, Elon Musk, Infosys and others. The goal was to conduct AI-related research. However, accusations arose that the company strayed from its original mission.



Monetary Dispute

Musk opposed Microsoft's investment in Open AI. Other founders also opposed this. Last year, this was the sole reason for the dispute between Altman and the board directors.



5
Points

Race for Profits

The company's Chief Technology Officer Mira Murati's resignation has been a significant setback for the company recently. This is also linked to Altman's efforts to transform the company's corporate structure from non-profit to a profit organization. Companies like Apple and Nvidia can invest large sums of money.



Why the Change?

The world of AI is expensive and rapidly changing. The technology rapidly shifted from language model to vision language action model. This requires a huge amount of funding for research. When other companies will enter this sector, they would expect a huge profit in return.



Upcoming Challenges

After the company undergoes a structural change, investors' opinions will be crucial. However, these companies often face significant issues with unstable management. Altman can face serious issues related to trust.





HOW AI CAN KEEP CHILDREN SAFE ONLINE

AI Age Scanners: A growing technology, AI Age Scanners are designed to estimate a user's age by analyzing facial patterns and features. This technology is gaining popularity in industries, particularly for online platforms to ensure that children are not exposed to inappropriate content or activities meant for adults.

HOW IT WORKS

1. **Facial Recognition:** AI studies the shape, structure, and patterns of a person's face.



2. **Age Prediction:** By analyzing these facial details, the AI estimates the age, reducing the chances of underage individuals accessing unsafe parts of the internet.

3. **Improving Accuracy:** With larger databases of images and more advanced machine learning models, AI becomes better at predicting age with increasing precision.



CHALLENGES:



• **Legal Hurdles:** Certain laws, particularly in regions like the European Union, pose challenges to widespread adoption of such technology due to privacy concerns.

• **Accuracy Issues:** In some cases, AI predictions can fail, especially with variations in facial features or expressions.



POTENTIAL BENEFITS:



Social Media: Restricting access based on age estimations can prevent young users from interacting with harmful content.

Gaming and Streaming: It helps block mature content.



Geographically Flexible: AI Age Scanners could be deployed globally to provide safer online experiences for children.



WHAT'S NEXT?

While still in development, AI Age Scanners could become a powerful tool in the fight to keep the internet a safer space for younger users. As the technology evolves, we can expect further integration with online platforms and apps.

This breakdown summarizes the technical aspects of AI Age Scanners as presented in the article, shedding light on their potential role in ensuring internet safety for children.

