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LUCKNOW - INDIA



DEPARTMENT OF COMPUTER APPLICATION



TECH DOSE >

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TECHNICAL COMMITTEE

1 Scientists discover new planet with rich metal core, 60 times heavier than Earth



An international team of scientists led by the Physical Research Laboratory (PRL), Ahmedabad, has discovered an exoplanet outside our solar system that is five times bigger and 60 times heavier than the Earth. Located 690 light years away from the Sun, the newest discovered planet is only the fourth exo-planet located in the Neptunian desert to be ever discovered

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

3 Google Play Store gets a new 'Continue playing' section



While the app store is great for downloading new games, many of us often forget to play the games we install on our phones and tablets. To help alleviate the issue, Google Play Store is rolling out a new section that helps users track all the games they have installed on their phones. Dubbed 'Continue playing', the new section appears under the 'Games' tab and notifies users when they last played a game.

<https://www.bbc.com>

2 Bluetooth 6.0: It can be a game changer for smartphone and accessories

Bluetooth 6.0 introduces channel sounding Bluetooth 6.0 is introducing a new capability called channel sounding, where a compatible smartphone or an accessory can now deliver an enhanced low-powered network of wireless devices. Bluetooth 6.0-equipped devices can now accurately determine the presence, distance, and direction of another Bluetooth 6.0-powered device, without compromising on security. Decision-based advertising filtering and monitoring Don't worry, Bluetooth 6.0 won't be used to deliver ads like your favourite social media apps. In this context, the advertising is meant for how one Bluetooth device identifies and interacts with other Bluetooth devices. Decision-based advertising ensures that it can automatically decide to scan the secondary device based on the content received on the primary Bluetooth device, which helps with efficiency and can reduce power consumption.



<https://www.9to5g.com/>

4 Windows laptop battery draining too soon Change these 5 settings immediately

These simple tweaks can further enhance your laptop battery life

- Set the laptop to the best power efficiency mode
- Enable auto energy saver at low power
- Enable auto turn-off screen and hibernation
- Enable auto brightness on laptop
- Enable close the lid to sleep option



<https://thehackjournal.com/>

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Amazon launches 'Clinic' medical consultation service in India

Amazon has launched a new service called Clinic in India which offers online doctor consultations for over 50 different medical conditions. Similar to Practo, with a starting price of Rs 299, users can now book a consultation with a medical specialist on Amazon Clinic through its app.



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

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BSNL is testing a new service that lets you send messages without a SIM: Here's how it works



At the recently concluded Indian Mobile Congress, the government-owned telecom operator BSNL unveiled its new logo and slogan and announced the launch of seven new services, one of which might let you make phone calls without a SIM card. Dubbed "Direct to Device", BSNL says that the connectivity solution "converges satellite and terrestrial mobile networks to deliver seamless, reliable connectivity." Developed in collaboration with Viasat, the network operator recently showcased satellite-powered twoway messaging services to attendees at the Indian Mobile Congress.

<https://www.bbc.com/technology/tech-news/technology/bsnl-new-services-including-sim-less-calls-662206>

New research suggests ChatGPT's real-time voice API can be used for financial scams

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ChatGPT, OpenAI's popular AI chatbot is useful if you want to do a wide range of tasks or quickly get answers to any question, but lately, threat actors have been using the AI chatbot for nefarious purposes like writing malware and even tricking it into giving crime advice.

<https://www.bbc.com>

X users can now see what blocked accounts are publicly posting

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A few months ago, Elon Musk-owned X was reportedly testing some changes to how the block feature works on the social media platform. Previously, if you blocked someone on X, they wouldn't be able to see your private or public posts, send DMs, reply or interact in any way. However, the updated version of the block feature now lets anyone you have blocked see your public posts but still prevents any interactions. X also said that accounts you block will not get a notification alerting them that their account has been blocked. But if someone you have blocked tries to open your profile page, the 'Follow' button will be replaced by a 'Blocked' button.




<https://www.bbc.com>

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Samsung prepares for OneUI 7 beta release

Samsung gave us an early glimpse of its next mobile operating system—One UI 7—at its annual developer conference. Based on Android 15, the upcoming iteration of the custom Android OS will be coming to the Galaxy Z, S, A, M, and F series of smartphones. However, this time around, the stable update will only be released in 2025 alongside the launch of the Galaxy S25 series of smartphones



<https://www.bbc.com/technology/tech-news/technology/samsung-one-ui-7-launch-2025-also-s25-launch-features-a-change-662206>

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Claude 3.5 Sonnet is now capable of analysing PDF files with images and tables



Anthropic's Claude 3.5 Sonnet can now analyse PDF with greater emphasis on text and detailed visuals like charts and tables. The AI model does this in a three-step manner - text extraction, dual-layer analysis, and page-to-image extraction. In simple words, the model extracts text from the PDF document and converts each page into images to analyse them. This allows users to gather insights about the visual elements in the document.

<https://www.bbc.com>

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South Korea fines Meta about \$15 mln over collection of user data



South Korea has ordered Facebook owner Meta Platforms to pay 21.62 billion won (\$15.67 million) in fines after finding it had collected sensitive user data and given it to advertisers without a legal basis, Seoul's data protection agency said.

<https://www.scoop.int/>

Indian IT opens AI labs across the world to showcase smarts

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IT companies such as Infosys, Tata Consultancy Services and HCLTech to global majors like Accenture have been setting up AI labs from Japan to the Nordic countries to the Americas to showcase their AI and generative AI capabilities to existing and prospective clients.



<https://www.bbc.com/news/technology-67444444>

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Larsen & Toubro Engineers Rs 1,300 crore ladder to the cloud



E2E specialises in providing CPU- and GPU-based cloud computing platforms, enabling customers to conduct large-scale general and AI workloads through its relationship with Nvidia.

<https://www.bbc.com/news/technology-67444444>

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13,000 employees rejoined Cognizant: CEO Ravi Kumar



To a question from ET on the company's attrition, Ravi Kumar S, chief executive of Cognizant said that about 13,000 people have come back to Cognizant after leaving the organisation in the past across the world. He said, "People are coming back. These are people who had left us. And nothing can be better than that."

<https://www.bbc.com/news/technology-67444444>

IT firms upbeat on BFSI discretionary spends takeoff

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The BFSI (banking, financial services and insurance) sector, the largest revenue generator for the Indian IT industry, is the biggest technology spender. While some experts point to an increase in discretionary spending linked to regulatory compliance, others highlight that projects previously on hold are resuming.



<https://www.bbc.com/news/technology-67444444>

IS SOCIAL MEDIA THE REASON BEHIND YOUR AGGRESSION?

In the city of etiquette, the tendency of aggression and unnecessary violence has been increasing from quite some time. Experts say that the main reason for this is people's failure to recognize and control their emotions. People who quarrel unnecessarily lack psychological maturity. They get influenced very quickly by what is happening in the society or what they are reading or watching, without applying their conscience. The trap of negative information system of social media has also started bringing changes in the behavior of many residents of Lucknow. Here is one such report:

THE NEGATIVITY OF SOCIAL MEDIA SHOULD NOT REACH INSIDE THE HOUSE

Experts say that social media is not only harming social harmony but also affecting our mental health. Most of the content on social media gives rise to fear, anger or hatred. Negative reels and videos spread faster than positive content. When people come across thousands of such videos and content everyday, they start getting affected to some extent. This negativity gradually starts dominating the mind and fills it with hatred and anger. Then there comes a time when the anger inside that person reaches a limit. Till now we have seen many such incidents on the road or in public areas, but this behavior is slowly reaching inside peoples home. To avoid this, we need to find the true source of the fake news that is being spread and as a responsible citizen we should report or block it.

CASE 1

Recently in Gonda Nagar Vastakhand, some miscreants misbehaved and beat up a food delivery boy. He just want to fulfill his duty of delivering the food to them but they tormented and hurt him.

CASE 2

A few months ago, in a case of road rage at the Polytechnic intersection, a youth took out a pistol and beat a person in the middle of the road. The reason was that the youth's car was hit by the other person's car.

CASE 3

A few months ago, some miscreants beat up a rickshaw puller because he refused to give them money for alcohol. The aged rickshaw puller sustained several critical injuries.

EXTRA CALORIE INCREASES AGITATION

It has been observed that consuming too many high-calorie foods or instrumental food increases the possibility of agitation in a person. On the other hand, those who consume more vegetarian food or fruits, their psychological system starts moving towards positive energy.

INTERNET CONTENT IS MAKING PEOPLE AGGRESSIVE

Psychiatrist of KGMU Adarsh Tripathi claims that social media has increased the reach of information. This has led to excessive information that too in a biased form. People make assumptions about other person, community or class without getting the facts checked. This strengthens their feeling of insecurity. They also send it to others, creating a circle of negative information, which leads to change in perspective. These people create disruption in the name of caste, religion, power, status, wealth and poverty. They lose their power to think and understand. Polarizing material is being created on a large scale on social media for personal gain. Their aim is to take advantage by provoking them, hence it is important to be balanced. If the group is biased, it will definitely bring change.

PEOPLE DON'T KNOW HOW TO MANAGE STRESS

Sociologist Dr. Pooja Srivastava says that people have started to live a fast-paced life in our city, which leads to high stress levels which most people don't know how to manage. Calming activities like meditation and yoga have disappeared from our daily lifestyle. Now we wake up in the morning like a machine. We are leading our lives like the automated hands of a clock.

The increasing stress level reaches its limit at some point. The moment which can lead a person to take adverse actions which in result is staining the rich culture of Awadh. New generation comes with changed fixation. Mobile phones have resulted in loss of human values. For this we need to know and understand ourselves, if you are short tempered, you can stick to meditation or spirituality. Through yoga and satsang, you will get to know such meaning and depth of our life, which you are losing by wasting your time on mobile and other futile things.



METHODS OF PREVENTION

- First, we need to know the true source and authenticity of the things of the information received.
- Stay away from provoking and polarizing content. Don't let stress dominate you.
- Organize your daily routine and complete your work on time because sometimes piled up tasks result in stress, which can later lead to anger.
- Get enough sleep, have a balanced diet, learn to manage time. Share your thoughts with someone who understands you.



BUILDING INFRASTRUCTURE ON MARS THE FUTURE OF SPACE CONSTRUCTION

With humanity's eyes set on colonizing Mars, the challenge of constructing infrastructure on the Red Planet has taken center stage. Recent advancements have showcased how innovative technologies, such as 3D printing and AI-driven robotics, could revolutionize space construction.



3D Printing Technology: Mars' local soil can be utilized as raw material to create large, sturdy blocks essential for infrastructure. Autonomous 3D printers equipped with AI will craft these blocks, eliminating the need to transport bulky construction materials from Earth.



Robotic Operations: Specialized robots, like brick-laying rovers and soil-excavating machines, will be essential. They will autonomously place blocks and construct buildings in challenging Martian conditions, making human involvement minimal at the initial stage.



Solar Energy Utilization: Solar-powered systems will be used for essential operations, such as generating heat to bind construction materials and powering robotics.



Hydration Systems: Machines capable of extracting and distributing water on Mars will play a crucial role, not only for human sustenance but also for construction purposes where water might be used as a binder or coolant.

This combination of technologies holds the potential to make sustainable living on Mars a reality. By leveraging AI, robotics, and sustainable energy sources, building on Mars may one day be as straightforward as constructing on Earth.

Takeaway: With these advancements, Mars colonization shifts from a distant dream to a tangible plan, inspiring further research and development in space technology.