





DEPARTMENT OF COMPUTER APPLICATION TECHNICAL COMMITTEE



WELCOME TO DIGITAL AND TECHNICAL WORLD

INTEGRAL UNIVERSITY

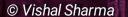
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Apple's new \$3k 'face computer'



The headset, named Apple Vision Pro, has been in the works for years, with Apple taking its familiar wait-and-see approach while other giant tech companies have dived headfirst into the still-kludgy AR/VR market. The new platform and headset have massive implications for the rest of the market; once Apple wades into a product category, it often both validates the category and obviates competitors.

02

Billions of devices will be trading with each other by 2030

By the end of the decade, some 3.3 billion Internet-connected devices (IoT devices) will be trading money and data directly, a new report from telecommunications consultants STL Partners claims.

That's up from 88 million devices next year, representing a 3750% increase in roughly six years, or "meteoric growth", as the report's authors put it.

The practice is being dubbed the Economy of Things (EoT). This subset of IoT, the researchers claim, will



03

Nvidia brings its AI computing platform to cloud data firm Snowflake



Snowflake a cloud data analytics company, is partnering with computing company Nvidia to allow customers ranging from financial institutions to healthcare and retail to build AI models using their own data. The two companies announced the partnership at Snowflake Summit 2023 on 26/06/2023. Slootman said companies that use Snowflake to manage their data will be able to now use their own data to train new AI models to gain an advantage in business without risking losing control of it.

Google will now pay you some serious dough to find security flaws in Chrome





Google has announced plans to triple the amount of cash available to those submitting their findings to its Vulnerability Reward Program (VRP) for Chrome in certain circumstances, with pots of up to \$180,000 available until the start of December 2023.

Google offers \$180,000 to find Chrome bugs.

05

Four Indian firms in WEF's 100 most promising tech startup list

The World Economic Forum (WEF) named four Indian entities, including Giftolexia Solutions and Xacmaz Technology, in its annual list of 100 most promising technology pioneers, comprising companies making progress in sustainability, advanced manufacturing and inclusive healthcare. The other two Indian entities on the list are evolutionQ, which offers quantum-safe cybersecurity products and Next Big Innovation Labs -- which is developing customisable 3D bioprinter to bridge the gap between organ demand and availability via 3D bioengineered organs.



Zoom will now use Al to sum up that meeting you missed

Zoom has started rolling out Zoom IQ with the first features now available for select users to try. The company describes Zoom IQ as a "smart companion" that is powered by generative AI.

Zoom IQ will be able to generate meeting summaries and compose chats, with the company promising an additional five features "soon" and likely even more in the coming months and years.



Union minister Ashwini Vaishnaw demonstrates the semiconductor tech Micron is set to bring to India





US memory chip giant Micron Technology Inc recently announced that it would invest up to \$825 million in a new chip assembly and test facility in India. The plant will be the company's first factory in India and will be set up in the state of Gujarat. Announcing the new chip facility, Micron said that with support from the central as well as the government of Gujarat, the total investment in the

Alphabet bets on lasers to deliver internet in remote areas

The project known as Taara is part of Alphabet's innovation lab called X, also nicknamed the "Moonshot Factory." It was initiated in 2016 after attempts at using stratospheric balloons to deliver internet ran into problems due to high costs, company executives said. Taara executives and Bharti Airtel, one of India's largest telecommunications and internet



09

ICC World Cup 2023 Trophy Becomes One Of First Official Sporting Trophies To Send To Space



The 2023 ODI World Cup trophy was launched on a stratospheric scale, one lakh 20 thousand feet above the earth before making a spectacular landing at world's largest cricket stadium in Ahmedabad. The trophy was attached to a bespoke stratospheric balloon to be launched into space, giving fans in various countries a chance to connect with the trophy.

YouTube content creators will soon be able to dub videos in other languages for free



YouTube is getting a new feature which will help creators dub videos in other languages. On Thursday at VidCon 2023, the online video-sharing platform announced that it will be using Aloud, a product from Google's in-house Area 120 incubator. Until now, content creators had to rely on third-party apps or providers if they wanted to make videos in different languages. Last year, Google introduced Aloud, an AI-powered dubbing product that can automatically transcribe a video and produce a dubbed version of the same. It also offers the option to review and edit the transcription before generating the dub.



Punjab National Bank launches IVR-based UPI solution



UPI123 Pay is an instant payment solution for feature phone (non-smartphone) users who can use Unified Payments Interface (UPI) payment service in a fast and easy manner; it allows users to make payments without using the internet. Punjab National Bank (PNB) becomes the first public sector bank to introduce an IVR-based UPI solution - UPI 123PAY, aligning with the Digital Payment Vision 2025 towards a cashless and cardless

Apple planning to launch credit card in India in partnership with HDFC Bank

Toyota Motor will launch high-performance solid-state batteries for electric vehicles (EVs) from 2026 and aims to commercialize its mass-production by 2027-2028 while developing technologies to reduce the cost of EVs and batteries. Toyota aims to produce about 1.7 million vehicles by 2030, half of its 3.5 million EV target by that year, and to sell a new EV with a lithium-ion battery that offers a range of 1,000 km.



IIT Madras Researchers Develop Data Science, IoT-Based Method for Mobile Pollution Monitoring



Researchers IIT Madras have made significant progress in the field of air pollution monitoring by developing a low-cost mobile air pollution monitoring framework. This innovative approach utilizes data science, Internet of Things (IoT) technology, and low-cost pollution sensors mounted on public vehicles to dynamically monitor air quality at a high spatial and temporal resolution. The project, known as Kaatru (meaning "air" in Tamil), aims to address the limitations of traditional stationary monitoring stations and provide valuable insights for policy-making and mitigation strategies

Microsoft joins Indian govt to train 6K students, 200 educators in cybersecurity skills

Microsoft has signed a memorandum of understanding (MoU) with Directorate General of Training (DGT) under the Ministry of Skills Development and Entrepreneurship (MSDE) to train 6,000 students and 200 educators in digital and cyber-security skills in the country. As part of this collaboration with, Microsoft will offer a wide range of courses, including training in AI, cloud computing, web development and cybersecurity skills for students and 200 faculty members at government-led Industrial Training Institutes (ITIs) and National Skills Training Institutions (NSTIs).



15

Al Supercomputer 'AIRAWAT' puts India among top supercomputing league



The International Supercomputing Conference (ISC 2023) in Germany, the AI Supercomputer 'AIRAWAT', situated at C-DAC, Pune, achieved an impressive global ranking of 75th on the esteemed Top 500 Global Supercomputing List. This accomplishment establishes India as a leading nation in the field of AI supercomputing. 'AIRAWAT' is part of the Government of India's National Program on AI and represents a significant stride forward in the country's AI capabilities.

Unknown Facts



Samsung is 38 years and 1 month older than apple.



The radio took 38 years to reach an audience of 50 million.



Over 6000 new computer viruses are created and released every month.



Apollo 11 astronauts couldn't afford insurance.

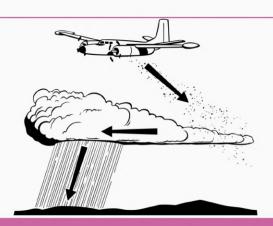


News of the Month

IIT-K conducts artificial rain test through cloud seeding

The Indian Institute of Technology-Kanpur (IIT-K) successfully conducted a test for artificial rain via cloud-seeding over a limited area on the sprawling campus. On 21/06/2023, a plane flew to a height of 5,000ft from the institute's airstrip, firing powder spray amid thick clouds, which resulted in heavy rain. The project, initiated by IIT Kanpur in 2017, faced multiple hurdles, including delays in obtaining necessary permissions. However, after meticulous preparations and thorough evaluations, the Directorate of Civil Aviation (DGCA) finally granted permission for the test flight. During the test, a Cessna aircraft took flight from IIT Kanpur's airstrip, reaching an altitude of 5000 feet.

Using cloud seeding technology, the aircraft released chemical powder into the clouds, stimulating the formation of raindrops. Shortly after, rainfall was observed in the surrounding areas, validating the effectiveness of the artificial rain technique. This breakthrough in cloud seeding technology holds promising prospects for regions such as Bundelkhand in Uttar Pradesh, which have long suffered from drought. By creating artificial clouds and inducing rainfall, this technique has the potential to bring significant relief to drought-stricken areas.



7 Steps Of DATA SCIENTIST





Understand role and responsibilities of Data Scientist

Improve mathematical, Programming, Technical & Business Strategically Skills





Use Big Data Software Like Hadoop, Spark to Achieve Distributed Processing

Working With DBMS Will Surely Go A Long Way In Securing Your Dream job.





Be Master Of Data Munging, Visualisation and Reporting and Expert to Convert Raw Data into Easy to Study and Analysis Form

Learn Code - Be a good programmer within the language in which data communicate





Lastly you need to stay up-to-date with the Data Scientist Community

International Women In Engineering Day



International Women in Engineering Day is celebrated on June 23 every year around the world, to honor women in the field of engineering. It focuses on raising the profile of women who are changing the field of engineering one degree at a time. It has been recognized by UNESCO and is a befitting tribute for the anniversary of the Women's Engineering Society (WES), which was established on June 23, 1919.

Women Inventors

- Space rocket propulsion system Inventor: Yvonne Brill
- 🦻 Space station batteries Inventor: Olga Gonzalez-Sanabria
- Laser cataract surgery Inventor: Patricia Bath
- Computer software Inventor: Grace Murray Hopper
- System to reduce noise by trains Inventor: Mary Walton
- Flectric refrigerator Inventor: Florence Parpart
- Wireless transmission technology Inventor: Hedy Lamarr



WOMEN IN ENGINEERING DAY TIMELINE

1876

The First Woman in Engineering

Elizabeth Bragg becomes the first woman to receive a degree in civil engineering from the University of Berkeley.

1919

A New Order of Women

The Women's Engineering Society is established after the First World War, to support informally-trained female engineers. _____ 1894

The First Female Engineering Graduate in Europe

Rita de Morais Sarmento receives an engineering degree with distinctions in civil engineering of public works from the Academia Politécnica do Porto, the first woman to do so in Europe.

2014

A Celebration of Excellence

The United Kingdom dedicates June 23 as National Women in Engineering Day.

