



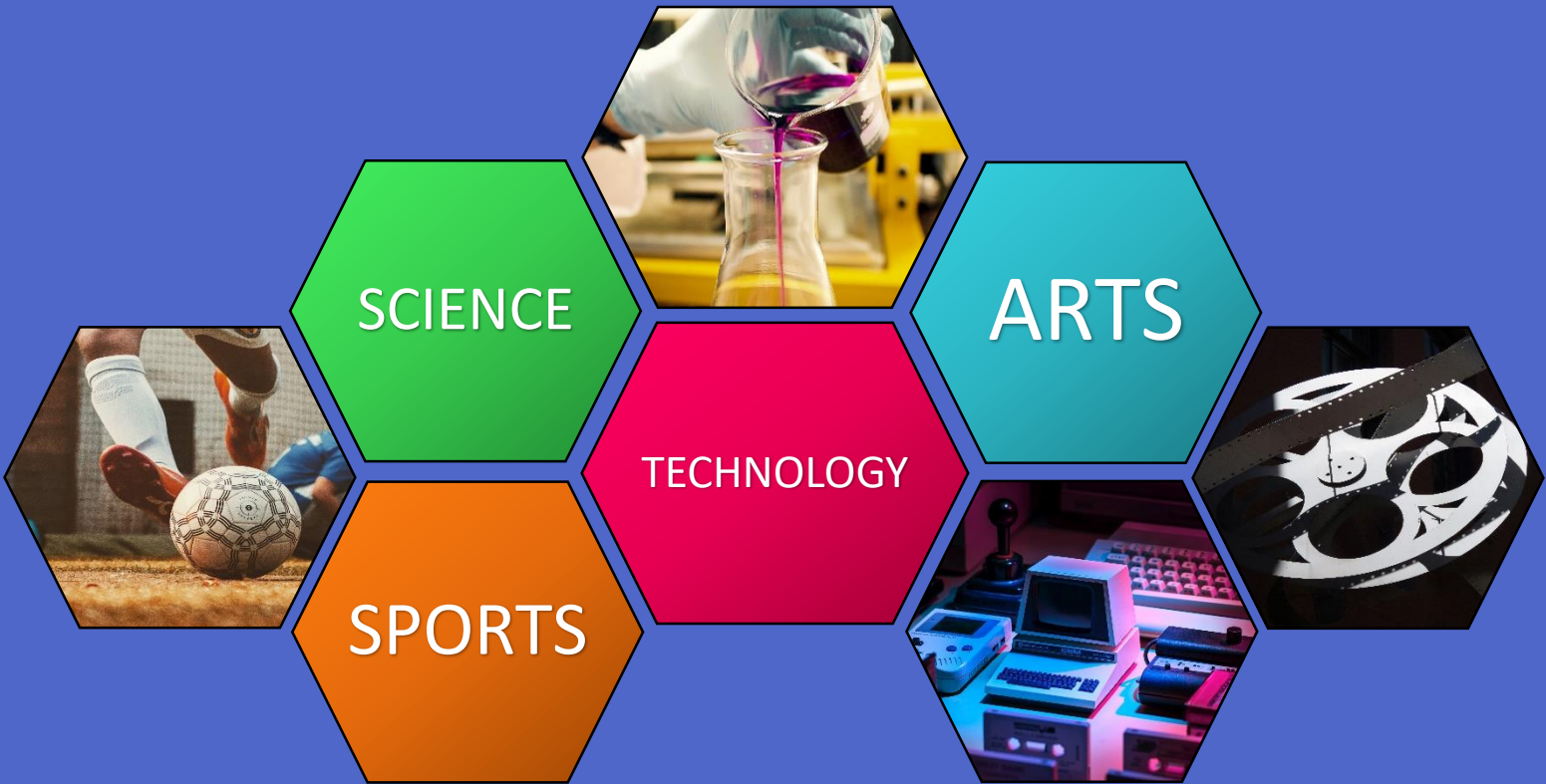
# St Berchmans College

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# BERCHLY

## E WEEKLY

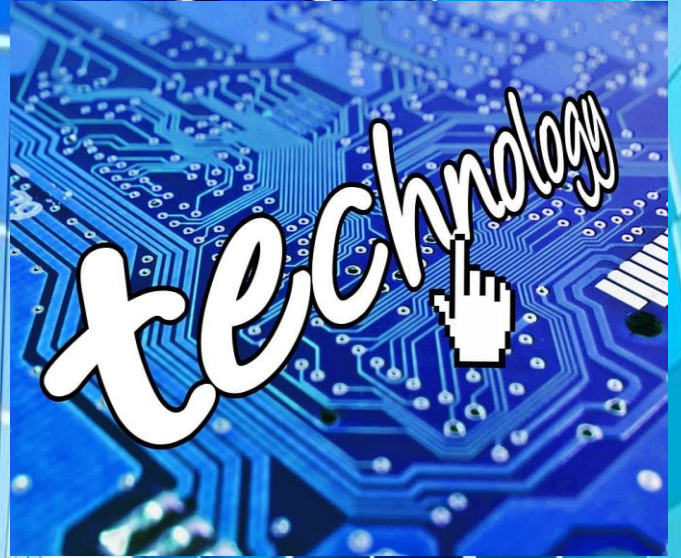
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## SCIENCE

### **A Doomed World: Astronomers Discover an Exoplanet Spiraling Toward Its Destruction**

*(January 28, 2023)*

Ashley Chontos, Princeton's Henry Norris Russell Postdoctoral Fellow in Astrophysics, was part of a team discovering that Kepler-1658b is spiraling to its doom around its aging star, providing a chance to learn more about the fate of other worlds as their solar systems evolve. Chontos also led 2019 effort to confirm that this object was an exoplanet, not the false positive it had believed to be for a decade. The impending demise of Kepler-1658b as it orbits its aging star offers an opportunity for scientists to gain insight into the fate of other planets and their evolving solar systems. Astronomers have made a groundbreaking discovery of an exoplanet whose orbit is deteriorating as it orbits an aging star.

Read more at:

<https://scitechdaily.com/a-doomed-world-astronomers-discover-an-exoplanet-spiraling-toward-its-destruction/>

### **Affecting Longevity: Early Life Experiences Can Have Long-Lasting Impact on Genes**

*(January 26, 2023)*

The researchers believe that their findings could lead to new ways for improving the health of older adults. A new study in fruit flies, led by researchers at [University College London \(UCL\)](#), has found that experiences during early life can have a long-term impact on the activity of genes and potentially affect lifespan. The study, published in *Nature Aging*, found that gene expression "memory" can persist throughout a person's life and may represent a new target for enhancing health in older adults.

Read more at: <https://scitechdaily.com/affecting-longevity-early-life-experiences-can-have-long-lasting-impact-on-genes/>

# Using Artificial Intelligence To Tame Quantum Systems

(January 25, 2023)

Quantum systems refer to the study of systems that operate on the principles of quantum mechanics. These systems include atoms, molecules, and subatomic particles, and are known for their unique properties such as superposition, entanglement, and quantum interference.

Machine learning drives the self-discovery of pulses that stabilize quantum systems in the face of environmental noise. Controlling the trajectory of a basketball is relatively straightforward, as it only requires the application of mechanical force and human skill. However, controlling the movement of quantum systems like atoms and electrons poses a much greater challenge. These tiny particles are prone to perturbations that can cause them to deviate from their intended path in unexpected ways. Additionally, movement within the system degrades, known as damping, and noise from environmental factors like temperature further disrupts its trajectory.

Read more at: <https://scitechdaily.com/using-artificial-intelligence-to-tame-quantum-systems/>

## India needs to do more for entrepreneurship: CEO of top science body in US

(January 26, 2023)

India has great talent, but it needs to do more to nurture and build an ecosystem for entrepreneurship, the CEO of a top science body in the US has said. Indian-American Maya Ajmera, who is president and CEO of Society for Science, and the publisher of its award-winning magazine, Science News, made these comments on Wednesday after five Indian-American teenagers featured among 40 finalists of a prestigious science and maths competition for high school seniors in the US. Ajmera said that while India has great talent, it needs to do more to nurture and build an ecosystem for [entrepreneurship](#).



Read more at:

[https://www.business-standard.com/article/current-affairs/india-needs-to-do-more-for-entrepreneurship-ceo-of-top-science-body-in-us-123012600134\\_1.html](https://www.business-standard.com/article/current-affairs/india-needs-to-do-more-for-entrepreneurship-ceo-of-top-science-body-in-us-123012600134_1.html)

## Scientists discover dinosaur nests, 265 fossilised eggs in Madhya Pradesh's Narmada Valley

(January 24, 2023)

The most recent finding suggests that the Narmada Valley was a zone of dinosaur hatching millions of years ago. As other palaeontologists have previously found dinosaur nests and eggs in the MP district of Jabalpur and the Gujarat town of Balasinor, this is not the first time a discovery of this nature has been made. In a new find, a group of palaeontologists located 256 fossilised Titanosaur eggs and 92 nests of herbivorous Titanosaurs in the Dhar region of Madhya Pradesh's Narmada Valley, as reported by the Economic Times.



Read more at: <https://www.wionews.com/science/india-scientists-discover-dinosaur-nests-265-fossilised-eggs-in-madhya-pradeshs-narmada-valley-555318>



# ARTS

## ‘How do you make a still photograph speak?’: BV Doshi

*(January 27, 2023)*

Unpacking the Padma Vibhushan-winner, architect BV Doshi’s philosophy of life and design through the Kamala House, which he built and lived in for over six decades. [Architecture](#) reveals itself in the relationships that it builds between people, and, for BV Doshi, architecture was not about the design but the ability to create life through it. There was something about the houses that he built that drew me back time and again, and I realised that it is not just the architecture, but how the spaces were thought of for people to live in, love in and grow in.

Read more at: <https://indianexpress.com/article/lifestyle/art-and-culture/bv-doshi-architecture-photograph-8408166/>



*Credited at: Dayanita Singh*

## Folk and Indie musicians take the stage at the Jaipur Literature Festival

*(January 22, 2023)*

The [Jaipur Literature Festival 2023](#) is underway in the Rajasthani capital city this weekend. The literary speakers this year include names such as Nobel prize winner Abdulrazak Gurnah, International Booker Prize winning author Geetanjali Shree, lyricist Gulzar and many more. But it’s not all about the panel discussions and debates. The fest also organised musical performances. Being held at the Hotel Clarks Amer, the [second day of the fest](#) wrapped up with a host of artists on the music stage.

Read more at: <https://indianexpress.com/article/lifestyle/art-and-culture/pics-folk-and-indie-musicians-jaipur-literature-festival-8397103/>



# National Tourism Day

*(January 25, 2023)*

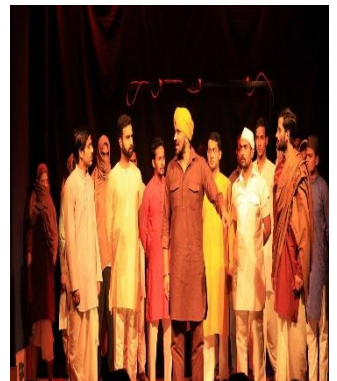
India's ancient heritage, natural beauty, and diverse culture are unmatched in the world — and **National Tourism Day** is dedicated to celebrating these unique characteristics of our country. Celebrated on January 25 every year, the day was observed to give a boost to the economy, and to promote and create awareness about the many tourist spots of India – be it ecological, business, heritage, or even educational. As such, on the occasion of this year's National Tourism Day, we look at five lesser-known UNESCO-designated World Heritage Sites in India. Dholavira: a Harappan City, Gujarat Located in the Kutch district of Gujarat, this archaeological site was recently added to the list, in 2021. Once a city in the illustrious **Indus Valley Civilisation**, back in 2650 BCE.

Read more at: <https://indianexpress.com/article/lifestyle/art-and-culture/national-tourism-lesser-known-unesco-world-heritage-sites-in-india-8403319/>

# How a rendition of 'Gagan Damama Bajiyo' highlighted the stories and struggles of India's freedom fighters

*(January 27, 2023)*

Patriotic fervour pervaded the Lok Kala Manch auditorium in New Delhi on Thursday, where Sukhmanch Theatre Group performed Piyush Mishra's 1994 play *Gagan Damama Bajiyo* on the occasion of India's 74th Republic Day. The play chronicled freedom fighter Bhagat Singh's life, lucidly describing his initiation into revolutionary ideas until his death by hanging on March 23, 1931. Mishra's alluring writing, which has equal doses of pun, satire and humour, all wrapped in the overarching theme of love towards one's nation, gave the audience enough space to wonder, cry, laugh and most importantly, introspect.



Read more at: <https://indianexpress.com/article/lifestyle/art-and-culture/gagan-damama-bajiyo-sukhmanch-theatre-group-patriotism-bhagat-singh-sukhdev-batukeshwar-dutt-theatre-8407774/>

# The Mahabharata Project: This stage production looks at the epic through the lens of mental health

*(January 21, 2023)*

The Mahabharata Project, a stage production by director Rajesh PI, is being described as an investigation into the psychology and behaviour of the lead characters. Using various mediums of storytelling, like body theatre, Kalaripayattu, dance, song, music, movement, and poetry, this production promises a fresh look at the classical epic. Rajesh, who has been in the field of theatre for more than three decades now, has a special fascination with the story of the Mahabharata and has done three other productions based on it.

Read more at:

<https://indianexpress.com/article/lifestyle/art-and-culture/mahabharata-project-epic-mental-health-stage-production-bengaluru-8390074/>



## **Google fires employee who took leave to care for his mother with terminal cancer**

(January 27, 2023)

Paul Baker, who worked at Google as Video Production Manager, revealed he was fired while he was on carer's leave. A Google employee, who took leave from the company, to take care of his terminally ill mother, was laid off. Baker, who worked at Google as Video Production Manager, revealed he was fired while he was on carer's leave.



Read more at: <https://www.indiatoday.in/technology/news/story/google-fires-employee-who-took-leave-to-care-for-his-mother-with-terminal-cancer-2327460-2023-01-28>

## **Indian startup now hiring 500 people for various roles after laying off 600 employees in 2022**

(January 25, 2023)

The layoffs wave has hit the Indian tech industry as well as some of the popular Indian tech startups including Swiggy, Dunzo and ShareChat laid off employees in large numbers. After cutting down the workforce by a large number, the online pre-owned vehicle platform Cars24 is now looking for fresh talents. The company revealed that it will hire around 500 employees for tech and non-tech related roles in the next three months. To recall, Cars24 has laid off close to 600 employees in 2022. The company said that the layoffs were based on performance and that it happens every year.

Read more at: <https://www.indiatoday.in/technology/news/story/indian-startup-up-now-hiring-500-people-for-various-roles-after-laying-off-600-employees-in-2022-2327444-2023-01-28>

## Amazon workers are questioned for taking toilet breaks, employee alleges

*(January 22, 2023)*

company has increased the pay for some of its workers to £10.50 per hour. However, the workers are asking for £15 per hour because that is what Amazon pays its workers in the United States. Amazon workers at a London warehouse have been on a strike for days now. The workers are protesting against the 5 percent increase in price, which is reportedly below the rise in cost of living in London. Amid the ongoing strike, some Amazon workers have also opened up about harsh working conditions at the warehouses.



Read more at: <https://www.indiatoday.in/technology/news/story/amazon-workers-are-questioned-for-taking-toilet-breaks-employee-alleges-2327236-2023-01-27>

## Indian online trading company CEO reveals why he never hires people from IIT, IIMs

*(January 24, 2023)*

Zerodha CEO Nithin Kamath has revealed during an interview that the online stock trading company has never hired anyone from the IIT or the IIMs. Nithin Kamath doesn't hire anyone from IIT and IIM for Zerodha. Kamath said in a podcast that he doesn't hire people from those organizations because they are more focused on developing their careers. Kamath also said that he is not averse to the idea of hiring them if they fit Zerodha's criteria. The founders of Zerodha, which is an online stock trading company, have revealed that they do not hire people who have out from colleges, including the IIT, IIM.

Read more at: <https://www.indiatoday.in/technology/news/story/indian-online-trading-company-ceo-reveals-why-he-never-hires-people-from-iit-iims-2327153-2023-01-27>

## High school students create robotic hand to help classmate in Tennessee

*(January 20, 2023)*

Students in high school designed a prosthetic hand for their classmate Sergio Peralta, who lacked a fully formed right hand. Tennessee high school students created a robotic hand to help a classmate whose right hand was not fully formed, in an act of friendship which the latter hailed as 'life-changing'. Sergio Peralta, who got admitted to Henderson high school near Nashville in the fall, always tried to cover up his right hand which was not fully formed, reported CBS News.



Read more at:

<https://www.wionews.com/science/high-school-students-create-robotic-hand-to-help-classmate-in-tennessee-556606>





## SPORTS

### **Sania Mirza, one of India's greatest tennis players, gets fitting Grand Slam farewell**

*(January 27, 2023)*

Trendsetter on court, and champion of breaking stereotypes off it, 36-year-old Sania Mirza leaves the Grand Slam stage where she belongs - in the final. India's Sania Mirza addresses the audience following her mixed doubles final loss with partner Rohan Bopanna to Brazil's Luisa Stefani and Rafael Matos at the Australian Open tennis championship in Melbourne, Australia, Friday, Jan. 27, 2023. Sania Mirza fought back the tears as she spoke on the Rod Laver Arena for the last time.

Read more at:

<https://indianexpress.com/article/sports/tennis/australian-open-sania-mirza-one-of-indias-greatest-tennis-players-ever-grand-slam-farewell-rohan-bopanna-8407075/>



Credited at: Aaron Favila

### **Hockey World Cup semifinal: Argentina-born Gonzalo Peillat helps Germany beat Australia in a classic**

*(January 25, 2023)*

Germany's Niklas Wellen (9) reacts after scoring the winning goal against Australia during the 2023 Men's FIH Hockey World Cup semi-final match between Australia and Germany, in Bhubaneswar, Friday, Jan. 27, 2023. Germany won the match 4-3. It certainly isn't the genes. Else, an Argentine wouldn't so effortlessly do what is second nature to the Germans: grind down opponents, score late goals and snatch wins from the jaws of defeat. But that's what Gonzalo Peillat did in a semifinal that will go down as a World Cup classic.

Read more at: <https://indianexpress.com/article/sports/hockey/hockey-world-cup-semifinal-argentina-born-gonzalo-peillat-helps-germany-beat-australia-in-a-classic-8408541/>

# FIFA bans 4 Uruguay players for disorder at World Cup

*(January 27, 2023)*

The players must all carry out community service on a soccer project and pay fines of up to 20,000 Swiss francs (\$21,600), FIFA said. Uruguay's Edinson Cavani, right, argues with referee Daniel Siebert of Germany, at the end of a World Cup group H soccer match against Ghana at the Al Janoub Stadium in Al Wakrah, Qatar, on Dec. 2, 2022. FIFA banned Uruguay players Fernando Muslera and José María Giménez for four games each on Friday for aggressively confronting match officials when the team was eliminated from the World Cup last month. Veterans Edinson Cavani and Diego Godín must also serve one-game bans when Uruguay next plays, FIFA said in disciplinary verdicts.

Read more at: <https://indianexpress.com/article/sports/football/fifa-bans-4-uruguay-players-for-disorder-at-world-cup-8408559/>

# Ranji Trophy: Saurashtra, Andhra advance to Ranji quarterfinals; Mumbai & Maharashtra lose out after drawn game

*(January 23, 2023)*

Though Saurashtra, Andhra and Maharashtra finished equal on 26 points after the seven rounds of the league phase, the first two teams entered the quarterfinals while Maharashtra missed out because it did not gain any bonus point. Saurashtra, despite a loss in the final round game to Tamil Nadu, and Andhra Pradesh on Friday advanced to the knockout stage of the Ranji Trophy from Group B after the Mumbai-Maharashtra game ended in an exciting draw.



Read more at: <https://indianexpress.com/article/sports/cricket/ranji-trophy-saurashtra-andhra-advance-to-ranji-quarterfinals-mumbai-maharashtra-lose-out-after-drawn-game-8408421/> .

# Hockey World Cup: India avoid further embarrassment with 8-0 rout of hapless Japan

*(January 21, 2023)*

After being eliminated from contention, India turn on the style in second half to demolish Japan. Rourkela: India's Mandeep Singh in action during a classification match of the 2023 Men's FIH Hockey World Cup against Japan, at Birsa Munda International Hockey Stadium in Rourkela, Thursday, Jan. 26, 2023. More than 72 hours had passed but Graham Reid still looked pensive when he led his team into the dugout. Twice in 10 seconds moments before pushback, the India coach described how tough the last couple of days had been for him and the team.

Read more at: <https://indianexpress.com/article/sports/hockey/hockey-world-cup-india-avoid-further-embarrassment-with-8-0-rout-of-hapless-japan-8406747/>