



Beauty surrounds us, but usually we need to be walking in a garden to know it

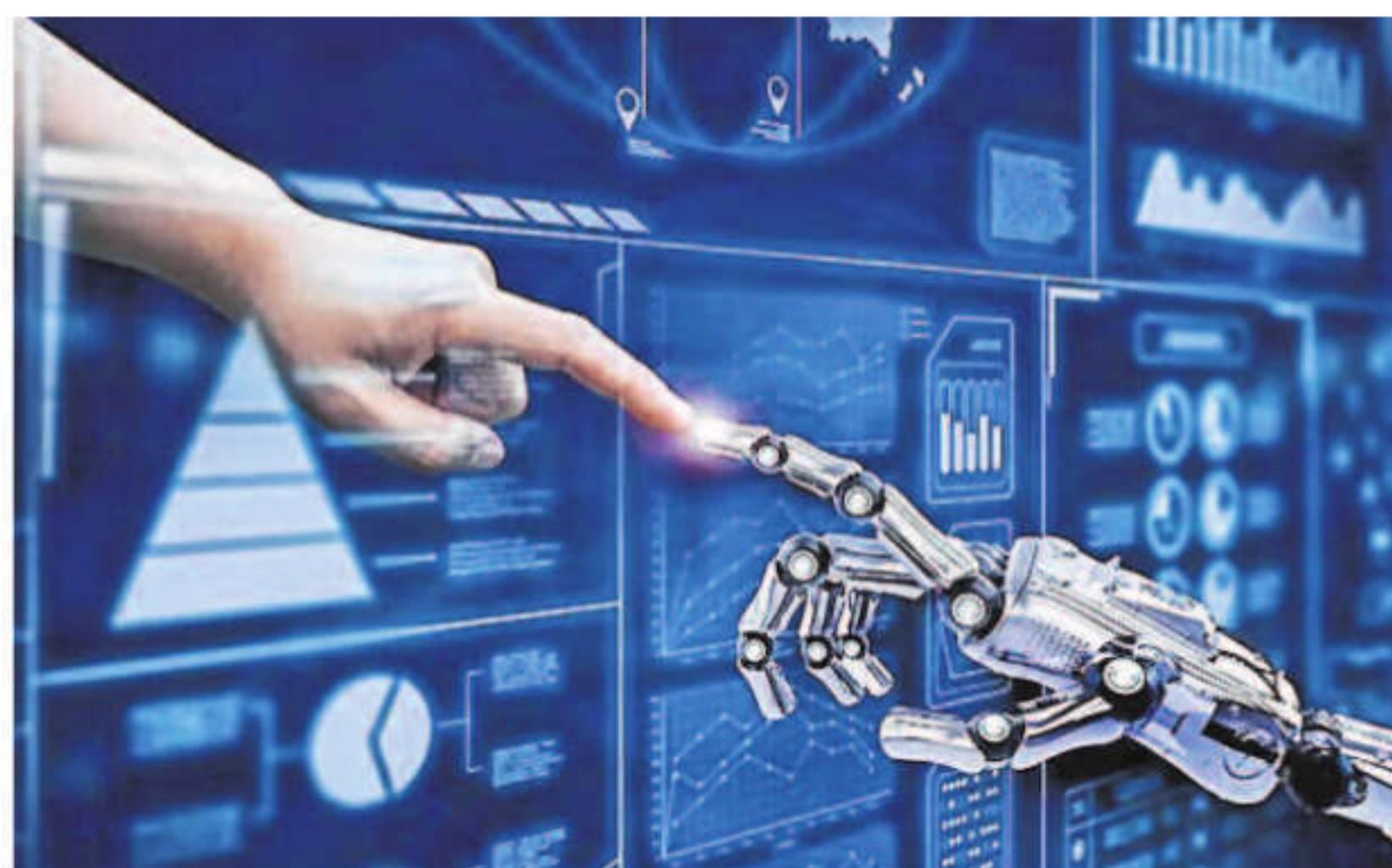
- RUMI

BEAUTY'S APPRECIATION REQUIRES CERTAIN CONDITIONS TO BE MET

HOPFIELD, HINTON WORKED ON ARTIFICIAL NEURAL NETWORKS

## Physics Nobel for laying foundations of machine learning

The Royal Swedish Academy of Sciences on Tuesday awarded the 2024 Nobel Prize in Physics to John J. Hopfield and Geoffrey E. Hinton for pioneering research in machine learning. The scientists received the award "for foundational discoveries and inventions that enable machine learning with artificial neural networks", the Academy said. Using tools from physics, the scientists developed methods that are the foundation of today's powerful machine learning. Hopfield created an associative memory that can store and reconstruct images and other types of patterns in data, while Hinton invented a method that can autonomously find properties in data. These can perform tasks such as identifying specific elements in pictures.



The Academy noted that the scientist duo have conducted important work with artificial neural networks from the 1980s onward. "The laureates' work has already been of the greatest benefit. In physics, we use artificial neural networks in a vast range of areas, such as developing new mate-

rials with specific properties," said Ellen Moons, Chair of the Nobel Committee for Physics. Hopfield was born in 1933 in Chicago, US. He did his PhD in 1958 from Cornell University, in New York. He is currently a Professor at Princeton University in New Jersey. Born in 1947 in London, UK, Hinton did his PhD in 1978 from The University of Edinburgh. He is currently a Professor at the University of Toronto, Canada.

**Did you Know?**

The researcher duo will be jointly awarded with a prize sum of 11 million Swedish crowns (\$1.1 million).

### 20K travel on Mumbai Aqua Line

As many as 20,482 passengers used the newly-opened underground corridor of Mumbai Metro Line 3, or Aqua Line, Phase 1 till 9 pm on the first day of its full-fledged operation on Tuesday officials said. A Mumbai Metro Rail Corporation (MMRC) spokesperson said the Aqua Line witnessed a ridership of 20,482 between 6.30 am and 9 pm on the second day of commercial operation, but the first day of full-fledged service.

### Cardiac surgery pioneer passes

Dr P Venugopal, former director of All India Institute of Medical Sciences (AIIMS), New Delhi, passed away on Wednesday at the age of 82. Dr Venugopal, a pioneer in cardiac surgery in India during the 1970s, conducted the country's first-ever heart transplant at AIIMS, New Delhi. Over his career, he performed more than 50,000 heart surgeries. His cremation will take place on October 9 in Delhi.



### Never give up on your dreams

Veteran actor and politician Mithun Chakraborty was honoured with the prestigious Dadasaheb Phalke Award at the 70th National Film Awards ceremony held at Vigyan Bhawan on Tuesday. The award, presented by President Droupadi Murmu, is the highest accolade in Indian cinema, celebrating lifetime achievements in the industry. The legendary actor was met with a standing ovation from attendees, including dignitaries and fellow artists. During his acceptance speech, Mithun reflected on his journey in the film industry. Mithun encouraged aspiring actors: "Never stop dreaming. Remember, when you go to sleep, don't let your dreams sleep. If I can do it, so can you."

### Victory for Indian democracy

Prime Minister Narendra Modi on Tuesday congratulated the National Conference alliance over its victory in Jammu and Kashmir assembly polls and said peaceful polls and enthusiastic participation in the polling process were a "victory of the Indian Constitution and democracy".



"Peaceful elections were held in Jammu and Kashmir, votes were counted and results were declared and this is the victory of the Indian Constitution and democracy. The people of Jammu and Kashmir gave the mandate to the NC alliance, I congratulate them too," he said. The Prime Minister said Jammu and Kashmir is coming out of the era of curfew and separatism





India is facing an unprecedented climate crisis and the perils of unchecked economic growth  
- JUSTICE DY CHANDRACHUD

## ARPAN'S PERSONAL SAFETY SERIES



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2. If anyone makes you unsafe, you can say 'No' and get away.
3. You can tell a helpful adult about it.
4. Keep asking for help from your helpful adults till you get help.



## SAMOSA, PARATHA CHIEF CULPRITS

A groundbreaking clinical trial conducted by the Indian Council of Medical Research (ICMR) has revealed that ultra-processed and fried foods which are rich in Advanced Glycation End-products (AGEs) are significantly contributing to India's spiralling diabetes crisis. The first-of-its-kind study in India by the Madras Diabetes Research Foundation, an ICMR Centre for Advanced Research in Diabetes, revealed that low-AGE diets could be a potential strategy to reduce diabetes risk. Diets with high AGEs include red meat, french fries and other fried foods, bakery products, paratha, samosa and sugary foods among others. The study funded by the Department of Biotechnology was published in the International Journal of Food Sciences and Nutrition last week. Notably, Advanced Glycation End-products (AGEs) are harmful compounds that form through a process called glycation.

## Nepal to get 20 bailey bridges from India

In response to the recent devastation caused by flooding and landslides, the Government of Nepal has decided to bring in 20 bailey bridges from India. Nepal's Minister for Physical Infrastructures and Transport, Devendra Dahal, made this announcement during his inspection of the disaster-hit areas in Sindhupalchowk.

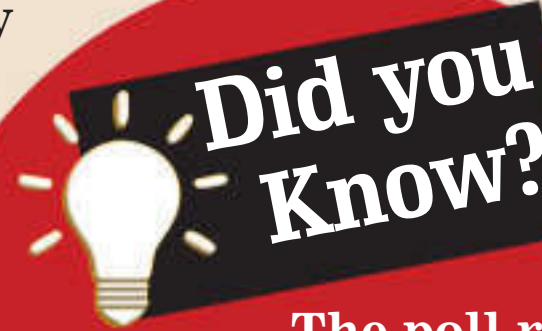


The heavy rainfall on September 27-28 led to significant damage across various river crossings in the nation, prompting the urgent need for temporary infrastructure solutions. Minister Dahal said that the truss bridges would be installed soon at Tatopani, ensuring critical connectivity in the affected regions. During their visit to Sindhupalchowk, Dahal was joined by Home Minister Ramesh Lekhak and Defence Minister Manbir Rai. The three federal ministers conducted an on-site evaluation of the damages inflicted by the floods.

## POLLSTERS END UP WITH EGG ON THEIR FACES

# BJP'S HARYANA HAT TRICK; J&K PICKS NC ALLIANCE

The BJP on Tuesday clinched a stunning hat-trick win in Haryana overcoming anti-incumbency, defying pollsters and dashing Congress' hopes of a comeback while the National Conference-Congress combine pulled off a spectacular victory in maiden elections in Jammu and Kashmir after abrogation of Article 370 in 2019. The BJP's decisive victory in the Haryana Assembly elections came as a big boost for the saffron party ahead of the crucial polls in Maharashtra, where along with its two allies it is bracing for a tough battle, and also in Jharkhand and Delhi. The BJP as well as the NC-Congress al-



The poll results bucked exit poll projections for both Haryana and J and K, the first major direct contest between the BJP and the Congress after the Lok Sabha verdict

liance got a comfortable majority in Haryana and J and K respectively where the Assemblies had an identical strength of 90. While Saini, the 54-year-old OBC leader who was made CM just six months ago, is likely to retain his post, NC President Farooq Abdullah announced that his son and party leader Omar Abdullah will be the chief minister.





This award is special because this is my seventh National Film Award

- **MANI RATNAM**

**PREZ PRESENTS 70TH NATIONAL FILM AWARDS**

# Sooraj Barjatya feted as Best Director for Uunchai

Sooraj Barjatya on Tuesday was honoured with the Best Director award at the 70th National Film Awards for his film 'Uunchai'. The film marked the directorial comeback of Sooraj Barjatya after his 2015 family drama 'Prem Ratan Dhan Payo' which starred Salman Khan, Sonam Kapoor, and Anupam Kher in the lead roles. He received the prestigious award from President Droupadi Murmu at the 70th National Film Awards ceremony at Vigyan Bhawan here in New Delhi. The winners of the 70th National Film Awards were declared in August 2024. 'Uunchai' tells the story of the friendship between Boman Irani, Amitabh, Danny Denzongpa and Anupam Kher's characters. It also stars Neena Gupta, Sarika, and Parineeti Chopra in lead roles. The film showcased Amitabh Bachchan, Boman Irani, Anupam Kher, and Danny Denzongpa planning and discussing the notion of summiting Mount Everest, but Danny



**Did you Know?**  
Ranbir Kapoor and Alia Bhatt starrer 'Brahmastra Part One: Shiva' won big at the 70th National Awards 2024. The producer of the film Karan Johar and director Ayan Mukerji were felicitated for Best Film in AVGC category.

dies of old age before they can reach a decision. The rest of his friends decide to carry on his wish and to immerse Danny's character's ashes at Mount Everest. Parineeti is seen as a trainer in the movie as she trains them for their task and eventually, they make it possible with Neena and Sarika in the company. With the company of Neena and Sarika, they end up climbing Mount Everest.

## India's rising star stuns World No. 23

Rising Indian shuttler Malvika Bansod continued her impressive form this year, pulling off a stunning upset against world No. 23 Sung Shuo Yun of Chinese Taipei to advance to the women's singles pre-quarterfinals of the Arctic Open Super 500 tournament on Tuesday. The 23-year-old southpaw, who clinched her first title in over two years at the Azerbaijan International in February, showed her resilience in a hard-fought match, winning in 57 minutes. Bansod's victory is a testament to her growing prowess on the international stage. However, the challenge will intensify in the next round.



## Sachin to lead India

The highly anticipated International Masters League (IML) is all set to take the world by storm, bringing together legendary cricketers from six cricketing powerhouses, India, Sri Lanka, Australia, England, South Africa, and West Indies in a thrilling T20 franchise tournament. The inaugural edition will run from November 17, to December 8. The DY Patil Stadium in Navi Mumbai will host the opening leg of four matches. The tournament will kick off with a high-octane fixture between India and Sri Lanka on November 17, pitting Sachin Tendulkar against Kumar Sangakkara.



## SADIA 1ST FROM PAK TO TOP RANKINGS

India spinner Deepti Sharma has dropped two places to hold the fourth spot in the latest ICC Women's T20I Bowling Rankings. Pakistan spinner Sadia Iqbal became the first from her country to briefly top the ICC Women's T20I Rankings, overtaking long-time number one Sophie Ecclestone before finishing second among bowlers in the weekly update released on Tuesday. Ecclestone had started the ongoing ICC Women's T20 World Cup 2024 in the top spot, a position she had held since February 2020.



## PM SHOULD DO 'HONOURABLE THING'

National Conference leader Omar Abdullah on Monday said he expects Prime Minister Narendra Modi to do the "honourable thing" by restoring the statehood to Jammu and Kashmir. "We expect the honourable PM will do the honourable thing and return statehood to JK at the earliest," the NC vice president, who is tipped to be the next chief minister of J&K, told PTI Videos. Abdullah hoped that the prime minister will fulfil his promise of restoring statehood to the people of the UT.



## QUICK NEWS

### Serious introspection

Communist Party of India General Secretary D Raja said on Tuesday that INDIA bloc and specifically Congress should do "serious introspection" after the Haryana election results were announced, and also questioned why the bloc's parties could not trust each other during the seat sharing discussion before the election.

### Democracy conquers despair

The Election Commission of India today congratulated the people of Jammu and Kashmir on the successful completion of the recent Assembly elections. Chief Election Commissioner Rajiv Kumar hailed the peaceful and participative electoral process as a victory for democracy over despair, showcasing the resilience and determination of the people of J&K.

### Nirdeshak for Navy

Defence PSU Garden Reach Shipbuilders and Engineers (GRSE) Ltd delivered INS Nirdeshak, the second of the four survey vessels, to the Indian Navy on Tuesday. The first ship of the class, INS Sandhayak, was commissioned in the Indian Navy in February this year. The contract for four survey vessels was signed in 2018.

## 10 new med colleges

The government on Tuesday announced to set up 10 new Employees' State Insurance Corporation (ESIC) medical colleges. The ESI Corporation approved the establishment of 10 new ESIC medical colleges at Andheri (Maharashtra), Basaidarapur (Delhi), Guwahati-Beltola (Assam), Indore (Madhya Pradesh), Jaipur (Rajasthan), Ludhiana (Punjab), Naroda-Bapunagar (Gujarat), Noida and Varanasi (Uttar Pradesh), Ranchi (Jharkhand). This decision will support the announcement made by Prime Minister during the Independence Day speech of creating new 75,000 medial seats in next five years.







Australia are different beast  
on their home turf

- BRIAN LARA

'SHE SHOULD HAVE QUALITIES OF A SPORTSPERSON'

## Vinesh wins polls, get slammed by PT Usha

IOA chief P.T. Usha slammed former wrestler Vinesh Phogat for blaming the association for her disqualification from the Paris Olympics, saying, "the wrestler's team is accountable, not the IOA". Vinesh, who joined politics soon after her retirement following her Olympics isqualification, won her debut political bout, getting elected from Julana seat in the Haryana Assembly elections on Tuesday. She secured a total of 65,080 votes to defeat her BJP rival, professional pilot Yogesh Bairagi. Following the news of Vinesh's victory, Usha revealed her thoughts on the wrestler's criticism of IOA for their role in her disqualification at the Paris Olympics. "She was a sportsperson. She



should carry the qualities of a sportsman, I am not trying to say politicians are bad but she went to the Paris Olympics for sports and we all wanted medals from her. After meeting her, we went to the World Wrestling Federation president to protest. They said, 'rules are rules' and after that, everything went into chaos. "For Vinesh Phogat we had sent her all the people she had requested, four or five people accompanied her." For us, it's new, only 100 gms, but for them it

is not new. This had happened earlier as well so she should know what to do, and how to tackle it. Her team knows everything but it still happened so it is not our or our sport science doctor's fault, it is her and her team's fault but still, she criticises us,"

Did you  
Know?

Vinesh announced her retirement from wrestling after being disqualified for the final, ending her hopes of becoming the first woman Indian wrestler to win silver or gold in the Olympics.

## Djokovic on way to 100th tour-level title

Novak Djokovic continued his pursuit of a 100th tour-level title with an impressive 6-1, 6-2 win over Flavio Cobolli at the Shanghai Masters, advancing to the fourth round. This match marked a stark contrast to his earlier encounter against American player Michael Michelsen, as Djokovic showcased his dominance in their first meeting. From the beginning I had a clear game plan of what I needed to do, staying aggressive and trying to use every short ball to take the initiative in the point. Cobolli was evidently exhausted after last night's match (against Stan Wawrinka). I think that has taken a toll, physically, on him today," said Djokovic in the post-game interview. Despite having played few matches recently, Djokovic expressed satisfaction with his freshness, saying he is ready to compete daily for as long as needed.



## Pak post 556 runs against Eng

Pakistan resumed the second day at 328/4 against England in Multan, eventually reaching a total of 556 all out in the first Test match. Vice-captain Saud Shakeel scored a gritty 82, well-supported by night-watchman Naseem Shah, who contributed 30 runs in a partnership of 64 runs. Pakistan's wicket-keeper, Mohammad Rizwan, was dismissed for a 12-ball duck by Jack Leach. Lunch was called with Pakistan at 397/6 after 112 overs. They reached the 400-run mark immediately after lunch in 112.1 overs. Shakeel reached his fifty in 89 balls.



## 220 players to join chess tourney

An All India FIDE Rating Chess Tournament will be organised in Mumbai at the SMCA Chess School from October 11-16. The tournament will feature around 220 players and will have a prize money of Rs 3 lakh. International Master Vikramaditya Kulkarni, who holds an Elo rating of 2185, is the top seed for the event. The tournament has been recog-

nised by the All India Chess Federation (AICF), FIDE, Mumbai City District Chess Association (MCDCA) and Maharashtra Chess Association (MCA). "By ensuring world-class facilities and offering live access to top matches, we hope to inspire more people to engage with chess and help foster new talent," said Durga Nagesh Guttula, the tournament director.





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# Jasudben ML School Hosts its Annual Career Fair; 30+ global varsities participate

Jasudben ML School (JML), in collaboration with the career guidance platform Mindler, on Monday, organised its annual Career Fair. The Fair was aimed at providing opportunities for students and parents to connect with representatives from over 30 institutions worldwide. Held in the JML School auditorium, the event focused on informing attendees about the diverse career opportunities available.

Global universities, including Kedge Business School, Ecole Intuit.lab, Symbiosis, Whistling Woods, Ashoka University, NMIMS, OP Jindal Global University, FLAME University, and others participated, offering insights into both international and national study options.

The Career Fair saw JML students as well as learners from other schools, who got the chance to engage directly with university representatives and career experts, according to JML. Attendees gained knowledge about various fields, ranging from traditional profes-



sions such as medicine and engineering to innovative sectors including data science, artificial intelligence, and sustainable technologies. The fair also aimed to provide practical advice on the skills necessary to excel in these areas, as well as guidance on admission processes, scholarship opportunities, and comprehensive career planning.

Addressing the gathering, Damayanti Bhattacharya, Principal of JML

School, remarked, "The Career Fair highlights the importance of early career guidance in shaping India's future workforce. With the coming of NEP-2020 (National Education Policy), there are a lot of doubts among parents and students, this aimed to empower them to make informed decisions about their futures.

Bhattacharya claimed that the fair was able to engage with a wide array of

experts and educators, guiding students in the evolving career landscape. "Partnering with Mindler has allowed our students to engage with a wide array of experts and educators. Events like these help as a guide in the evolving career landscape when there is a need for educational initiatives that align with emerging global trends."

Madhura Pathare, Academic Counsellor, JML School said, "This Career Fair featured universities offering unique course options, setting it apart from any other career fair. This served as an opportunity to gain a deeper understanding of the diverse array of courses available to effectively guide and support career decisions."

One of the parents present at the JML's Career Fair professed that through the fair they were able to understand the emerging fields. "We were able to better understand the emerging fields and how our children could be better prepared for the challenges and opportunities that lie ahead," she said.

## NARAYANA E-TECHNO STUDENTS VISIT HOSPITAL AS PART OF NEET PREPARATION

Students from Grades 8 and 9 of the NEET Premier League (NPL) at Narayana E-Techno School in Thane visited Indira Gandhi Memorial Hospital in Bhivandi for an educational field trip. Under the guidance of Medical Superintendent Dr. Madhvi Kharade, the students explored various hospital departments, including the General Outpatient Department (OPD), Ophthalmology, Sick Newborn Care, Postnatal Care, Ear Nose Throat (ENT) department, Gynecology, Non-Communicable Diseases, the ICTC-HIV Unit, Immunization services, X-ray, CT Scan, Dental OPD, and



the Pathology Lab.

During the trip, some students tested their blood groups and observed blood cells under a microscope. The students witnessed a live delivery of a baby girl, and they also had the opportunity to observe a post-mortem procedure.

According to the school, throughout the visit, students were encouraged to interact with medical professionals, asking questions and seeking clarification on various topics. This excursion enhanced their knowledge and sparked their interest in pursuing careers in medicine, the school claimed.