



PABLO PICASSO

WISE WORDS >>

I am always doing that which I cannot do, in order that I may learn how to do it.



Hindustan Times

FIRST VOICE. LAST WORD.

breaking it down

OTT: ALL THE BUZZ ABOUT IT

Understanding what really makes the rapidly growing streaming services tick. >P3



{ JARED ISAACMAN } AMERICAN BILLIONAIRE

No jitters, excited to get going

Isaacman told this to reporters ahead of SpaceX's historic all-civilian 4-member mission



climate change

WITH ICE SHEETS AND GLACIERS, MELTING, SCIENTISTS SCRAMBLE TO HARVEST ICE CORES

>P5



covid cases on rise in u.s.

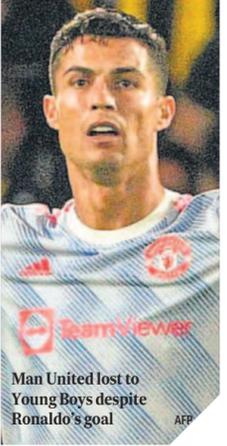
COLLEGES IN U.S. NOW COAXING STUDENTS TO GO FOR VACCINES

As a new semester begins amid a rise in Covid-19 cases, colleges in North America are wooing students with prizes or warning of expulsions to get them vaccinated. >P4

In the University of Virginia, students who don't comply with a school vaccine mandate, or apply for exemption, have been asked to leave. SHUTTERSTOCK

soccer

CHAMPIONS LEAGUE: UNITED DEAL SHOCK LOSS; LUKAKU BOOSTS CHELSEA >P6



Man United lost to Young Boys despite Ronaldo's goal. AFP

NATION

JEE-Main result declared; 44 candidates score 100 percentile, 18 share top rank

NEW DELHI: A total of 44 candidates have scored 100 percentile in the engineering entrance exam JEE-Main this year while 18 candidates have shared the top rank, education ministry officials said on Tuesday midnight.

Starting this year, Joint Entrance Exam (JEE)-Main was conducted four times a year to offer flexibility to students and a chance to improve their scores. The first phase was held in February and the second in March. The next phases were scheduled for April and May but those were postponed in view of the second wave of the Covid-19 pandemic that raged through the country affecting lakhs.

The third edition was held from July 20-25 while the fourth edition was conducted from August 26 to September 2. The ranks of the candidates have been released taking into consideration the best of the four NTA scores in accordance with the policy already made. The examination was conducted in 13 languages -- English, Hindi, Gujarati, Assamese, Bengali, Kannada, Malayalam, Mara-



Starting this year, the JEE-Main was conducted four times a year to offer flexibility to students. HT FILE

thi, Odia, Punjabi, Tamil, Telugu and Urdu. Over 9.34 lakh candidates appeared in four editions of JEE-Main. A total of 2.52 lakh common candidates had appeared for all four editions of the exam. A total of 6.58 lakh male candidates had appeared for the exam while the number of female candidates appearing for the exam was 2.80 lakh. The ranks of the candidates have been released taking into consideration the best of the four NTA scores in accordance with the policy already made. PTI

Hamlets in 3 Indian states are in quest for UNWTO honour

SHILLONG: Rural India is fast emerging on world tourism map as Meghalaya's whistling village Kongthong has been selected for entry to UNWTO (The World Tourism Organization) 'Best Tourism Village' along with two other villages in India.

Kongthong is popular among tourists for its ancient tradition, where a mother calls her child by a tune instead of a name. "Meghalaya's whistling village Kongthong is selected for entry to the UNWTO World Tourism Organisation 'Best Tourism Village' along with two other villages in the country," wrote Meghalaya CM Conrad K Sangma while sharing the news on Facebook. Kongthong is talked about for its unique tradition called 'Jingrwai law-bei' where a mother assigns a tune or lullaby to a child within a week of birth, which becomes his/her unique identity, instead of a name. According to The Shillong Times, the other two villages that have been selected are Pochampally of Telangana and Ladhpora Khas in MP. HTC

Lab-made 'alum Ganesha' creates eco-friendly ripples

SATNA: Students of a government school in the Satna district of Madhya Pradesh have prepared eco-friendly Ganesha idols in their chemistry lab from potash alum, a water purifying chemical compound, to spread the message of "science for environment".

The group of eight students from the Venkat Higher Secondary Excellence School No 1 struck on the idea last week during their class with their chemistry teacher Dr Ramanuj Pathak. The idols, about 1.5 ft tall, were moulded and prepared on Ganesha Chaturthi day on September 10. Pathak said he and his students are looking to take this experiment further and prepare Durga idols during the upcoming Durga Puja/Dussehra festivities "so that the message reaches more people and everyone can come together in the initiative to celebrate our festivals with care for the environment." Once successful, such idols of Ganesha and Durga can be made on a commercial scale too, he said. PTI

CITY LIGHTS

Delhi govt bans storage, sale & use of firecrackers

NEW DELHI: The Delhi government on Wednesday banned the storage, sale and use of firecrackers during Diwali owing to the "dangerous pollution levels" in the national capital around the time of the festival. Chief Minister Arvind Kejriwal said that like last year, it was essential to implement the ban in order to save lives. "In view of the dangerous condition of pollution in Delhi during the Diwali period for the last three years, and like last year, a complete ban is being imposed on the storage, sale and use of all types of firecrackers. So that people's lives can be saved," he said in a tweet in Hindi. Environment minister Gopal Rai said that the National Green Tribunal had called for a complete ban on firecrackers in poor air quality regions throughout the pandemic. PTI



Like last year, it is essential to implement the ban on firecrackers this year too in order to save lives, said chief minister Arvind Kejriwal on Wednesday. PTI FILE

Delhi varsity's phased reopening plan kicks off

NEW DELHI: Delhi University colleges and departments began welcome back final-year undergraduate and postgraduate students back to campus from Wednesday for practical and laboratory work as part of a phased reopening plan announced last week.

While not all Delhi University colleges will resume in-person classes right away, many principals are expecting students to come to access library reading rooms and meet teachers. Several students said they are looking forward to returning to college.

Aarushi Sharma, a third-year undergraduate student studying computer science in Miranda House, was clearly excited as she said she would visit the college library ahead of her "lab-turn" on Friday. KAINAT SARFARAZ

Several weather records broken in last 3 months

NEW DELHI: Over the last 13 months, Delhi has been witnessing frequent extreme weather recordings, breaking at least one historic weather record every month, India Meteorological Department (IMD) data shows. While forecasters and scientists attributed this largely to temporary factors, including global and local weather impacts, but they also said that the shift in the Capital's weather patterns was a result of global climate change.

IMD data shows that despite a late-onset, Delhi is witnessing one of the most erratic monsoons ever. Just a fortnight into September and two historic records have already been broken. According to IMD data, September this year has already become second rainiest Septembers in the last 121 years. HTC

SCHOOL EVENT

HILLWOODS ACADEMY, PREET VIHAR, CELEBRATES SANSKRIT DIWAS VIRTUALLY

To generate interest in Sanskrit language and promote its use among the people, Hillwoods Academy, Preet Vihar, celebrated Sanskrit Diwas on a virtual platform with enthusiasm. The celebration was organised by teachers Ruchika and Monu. Sanskrit students from Grades 6 to 10 took part in all the activities along with the members of the teaching faculty. Sanskrit, the heritage language, is one of the purest and most beautiful languages ever spoken. Detailed report pg 2



WORD POWER

Pacifism

pas-uh-fiz-uhm

noun

Meaning: Refusal to engage in military activity because of one's principles or beliefs.

Origin: The origin of this word is traced back from 19th century from the word pacifisme.

Synonyms: Pacification, passiveness, passivity, peaceableness

Antonyms: Aggression, defiance

Usage: Minding your own business leads to pacifism, malevolent neutrality, selfishness of every sort.

WORLD

North and South Korea conduct duelling missile tests

SEOUL: North Korea and South Korea test fired ballistic missiles on Wednesday, the latest volley in an arms race that has seen both countries develop increasingly sophisticated weapons while efforts to get talks going on defusing tension prove fruitless. South Korea tested a submarine-launched ballistic missile, becoming the first country without nuclear weapons to develop such a system. South Korean President Moon was attending that test firing when word came of the North Korean launches, its first ballistic missile tests since March. AP

Climate goals: Tiny Gambia bucks trend as most nations lag

WASHINGTON: Nearly every nation is coming up short — most of them far short — in their efforts to fight climate change, and the world is unlikely to hold warming to the internationally agreed-upon limit, according to a new scientific report.

Only one nation — tiny The Gambia in Africa — is on track to cut emissions and undertake its share of actions to keep the world from exceeding the Paris agreement goal of limiting warming to 1.5° Celsius of warming since pre-industrial times, the report said. AGENCIES

Outcry as 1,400 dolphins slaughtered in a day in Faroe Isles

COPENHAGEN: The government of the Faroe Islands, an autonomous Danish territory, faced an outcry on Tuesday over the culling of more than 1,400 white-sided dolphins in a day in what was said to be the single biggest hunt in the northern archipelago.

"There is no doubt that the Faroese whale hunts are a dramatic sight to people unfamiliar to the hunts and slaughter of mammals," a government spokesman said.

"The hunts are, nevertheless, well organised and fully regulated," he said. Traditionally, the North Atlantic islands — which have a population of around 50,000 people — hunt pilot whales and not dolphins, the spokesman said. AFP

CODING: THE NECESSARY NEW-AGE SKILL

'It widens students' horizons and helps them find alternate ways to approach any problem'

The emergence of internet in the 20th century opened up a whole new world of opportunities, experimentation and potential for mankind. Internet has fostered rapid technological advancements, which have now become part and parcel of our lives.

It is this spirit of innovation that has given rise to coding, a new-age skill driving growth in the technological world. In essence, it's a language of computers used to develop apps, websites and software.

Skeptics would ask -- should this language be taught to students? Will this not increase their screen time? I tend to disagree. I want to look at it as a positive development. That students spend a lot of their time on screen is a reality, which needs to be accepted. There is a need to convert this idle screen time into something worthwhile.

Therefore, it should be the endeavour of the schools to equip them with skills that are useful and can eventually help them become productive and employable.

New Era Public School is happy to collaborate with the Hindustan Times in helping the students to learn the skill of coding.

I believe this skill will turn our students into creators of innovative products to meet the demands of the future. It will posit them as problem solvers, who will make a difference to the society. The benefits of learning this skill would also be felt in their academic performance.

It is believed that coding improves the academic performance of the students, especially in areas such as mathematics, creative thinking, writing and logical problem solving. It widens the horizons of the students and helps them visualise alternate ways to approach any problem.

At our school, we believe that we cannot be rigid and continue following the conventional path.

The times demand that we modernise and adapt, just as we did with the online teaching in the past two years.

I congratulate the Hindustan Times for helping the schools usher in a new era in the lives of their students. This step from a reputed media organisation like the HT will transform the lives of students enrolled in the coding programme.

Vandana Chawla, principal, New Era Public School, Mayapuri



I believe the coding skill will turn our students into creators of innovative products to meet the demands of the future, writes principal Vandana Chawla.

Knowledge meet,
Day 1: NEP & digital divide on the agenda

HT Correspondent

NEW DELHI: At a time when the Covid-19 pandemic has forced the physical closure of educational institutes, it has become imperative to reimagine learning and align it with the innovations in digital education in the country.

In line with the same goal, policymakers and thought leaders across a wide spectrum are coming together for a two-day conclave starting on Thursday wherein they will focus upon the role that technology can play in transforming education in India.

Organised by the Hindustan Times, the Lenovo SmarterEd Conclave will focus on the theme: Smarter Technology - The New Order of Education. The event will bring together thought leaders, policymakers, educators and industry experts who will drive conversations on the future of learning and education amid a proliferation of technological innovations.

Those interested in attending the virtual conference can visit <https://lenovosmarteredconclave.virtualeventexp.com/> or scan the QR code below.

The conclave will touch upon the three key areas of the education sector -- tech advancements in education, digital inequality, and reskilling or upskilling of the educator workforce. It will put the spotlight on the new education policy, digital divide, tech developments in education, teacher upskilling and encourage interaction with tech decision-makers across school and higher education institutes.

Union minister for education, skill development and entrepreneurship Dharmendra Pradhan will address the event and touch upon the

LENOVO INDIA MANAGING DIRECTOR SHAILENDRA KATYAL WILL SHARE INSIGHTS ON HOW TECHNOLOGY CAN HELP IN BRIDGING THE DIGITAL DIVIDE WHILE MOS FOR SKILL DEVELOPMENT RAJEEV CHANDRASHEKHAR WILL DWELL UPON THE IMPORTANCE OF SKILL EDUCATION AND HOW IT CAN BE ATTAINED IN THE COMING YEARS.

National Education Policy (NEP) 2020 as well as the role of technology in the future of education.

Lenovo India managing director Shaileendra Katyal will share insights on how technology can help in bridging the digital divide while minister of state for skill development Rajeev Chandrashekar will dwell upon the importance of skill education and how it can be attained in the coming years.

On the second day of the conclave, IT minister Dr Chikkakalya Narayana Ashwath Narayan and education secretary Amit Khare will share their insights along with a line-up of educators and experts.

The conclave will cover an entire gamut of issues that are pertinent to the adoption of technology in education, including concerns around the emerging digital inequality and exclusion.

Experts and stakeholders will also discuss the lack of infrastructure in rural India, address the gender bias in households and digital readiness of government educational institutes while offering solutions through which communities can play their part in bridging these gaps.



Scan the QR code to register

SCHOOL REPORTS

Hillwoods Academy, Preet Vihar, celebrates Sanskrit Diwas



The students took part in various Sanskrit language-related activities

To generate interest in Sanskrit language and promote its use among the people, Hillwoods Academy, Preet Vihar, celebrated Sanskrit Diwas on a virtual platform with enthusiasm.

The celebration was organised by teachers Ruchika and Monu. Sanskrit students from Grades 6 to 10 took part in all the activities along with the members of the teaching faculty. Sanskrit, the heritage language, is one of the purest and most beautiful languages ever spoken.

The students were exposed to the finest expressions in the Sanskrit language through various activities. Sanskrit Chitra Varman, Shlok Uccharan, and Sanskrit dialogue delivery, to

name a few, had the students not only competing with each other at an individual level but also across classes and that too in Sanskrit! A mélange of other activities like Stuti Gaayan in Sanskrit and the master anchoring by the children left the audience spellbound. To top it all was the impeccable Sanskrit spoken by the students. Their performances bore testimony to how much the students cherish the language and have internalised it.

The Sanskrit Diwas 2021 was an immense success. The smooth transition from one event to the other, without a glitch, reflected the hard work and the efforts of the participants and the teachers.

KPS, Sahibabad, celebrates Recognition Day to felicitate student achievers

Khaitan Public School (KPS), Sahibabad, celebrated Recognition Day to felicitate its students for their excellent performances in academic as well as co-curricular activities. The chief guest of the event was Arwachin International School, Dilshad Garden, principal Swapna Nair.

The event, which was conducted online, began with the chanting of Sanskrit shlokas to invoke the blessings of Goddess Saraswati and Lord Ganesh. Middle School head Aparajita Roy Das welcomed all to the three-fold recognition of the children, their parents and teachers for their pursuit of brilliance.

KPS vice-chairman Anirudh Khaitan acknowledged the efforts of the students and encouraged them to keep up the good work. Vice-principal (teaching and learning) Himani Tyagi shared her thoughts on the importance of perseverance and congratulated the students on their astounding achievements.

Nair, a teacher trainer, editor and content writer for English textbooks, has held the post of headmistress among others for eight years in Khaitan Public School. She is presently working in collaboration with District State legal authority to spread awareness on POCSO and cyber-crime. She blessed and appreciated the students for their virtuosity in every sphere of learning.

Thereafter, the awards were announced for the students for the academic session 2020-21. Certificates were awarded for various honours like Mahadevi Verma Award, Ramanujan Award, Uday Shankar Award, Lata Mangeshkar Award, Jamini Roy Award etc.

The announcement of each award was followed by a thundering applause. The event witnessed a mélange of ideas resonating through various artistic and aesthetic skills. Aditya Kumar enthralled the audience with a piano recital while Divyansh presented a humorous mime. In addition, the Khaitan Performing Arts Society showcased a breathtaking dance performance on the song 'Ek Jinder' which was choreographed by Munam Roy. The performance encouraged the students to believe in themselves and not lose hope in any situation.

The celebration culminated with Middle School head girl Nitya Sindhu proposing a vote of thanks. The event was truly a proud occasion for all the achievers.



The students were felicitated for achieving success in academic as well co-curricular activities

SPS, Pitampura, celebrates International Youth Day

Sachdeva Public School (SPS), Pitampura, celebrated International Youth Day with great enthusiasm on a virtual platform. The students of Classes 11 and 12 participated in that event.

The event highlighted the importance of International Youth Day which recognises and celebrates the contribution of youth around the world.

On that occasion, the students talked about the youth as harbingers of power who can help a country move towards progress.

The programme showcased the youth icons of our country, putting forward the message that consistent hard work is the key to success.

Also, the role of young freedom fighters, who sacrificed their lives for the country, was highlighted.

The event ended with the recitation of the poem 'An Address to Youth', which reiterated the fact that the youth possess immense potential to touch the sky. The event was a successful one as it truly inspired the young minds to forge ahead in life.

MIND GAMES

SUDOKU

7	6			9				
		3			1		5	
			3	4		6	9	
	3							7
5			4			8		
	4		2	1				
		1					6	
				6		9		
	8							2

SCRAMBLE

Solve the four anagrams and move one letter to each square to form four ordinary words

KNVAE		*		*
FGTAR	*	*		
CDEEIT			*	*
ELSYLM	*		*	

Now arrange the letters marked with an asterisk (*) to form the answer to the riddle or to fill in the missing words as indicated.

You begin with the possibilities of the ____ - Robert Rauschenberg (8)

Answer: You begin with the possibilities of the material. - Robert Rauschenberg

WHAT'S THE PASSWORD?

Lucky chooses a password for his computer. It contains seven characters including letters and numerals. He writes down this cryptic sentence on paper to help him remember it: 'You force heaven to be empty'.

Can you guess Lucky's password?



Amrita Bharati Features

Answer: u427bmt

MATHDOKU

5+	9+	8x		
			8+	
3		12x		
1-	2+	9+		3+
		7		

Place numbers into the puzzle cells so that each row and column contains each of the digits from 1 to 5. No number is to be repeated in any row or column. Each bold-outlined cell contains a hint of a number and one of the mathematical symbols +, x, -. The number is the result of the operation represented by the symbol to the digits contained.

CREATIVE MANIFESTATION

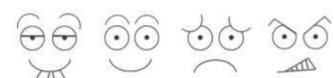


Artist Rahul Varia recreates a train compartment for Ganpati decoration inside his house at Ghatkopar in Mumbai on Monday

PRATIK CHARGE/HT

DRAWING FUN

Draw these expressions on the faces below. Remember to add different hairstyles and make them male or female.



HAPPY

ANGRY

SILLY

SAD

Solutions

4	6	5	3	9	6	9	8	2
3	7	2	1	6	4	4	9	8
5	1	7	8	2	2	4	6	3
6	4	7	2	1	8	3	3	9
9	3	9	6	6	2	4	7	6
2	5	3	3	4	7	6	9	8
8	3	6	2	1	7	5	4	4
8	6	3	6	2	1	7	5	4
7	6	4	8	9	5	3	2	1

SNOLITNOS XONKIS

4	1	5	2	3
3	2	4	5	1
2	5	3	1	4
1	4	2	3	5
5	3	1	4	2

MATHDOKU SOLUTION

SCRAMBLE Solution Words: Krave, graff, deelit, smelly

OTT: NEW-AGE, NET-BASED MEDIA SOURCE

With the Covid-19 outbreak, millions have been accessing entertainment and other content through OTT platforms from the safety of their homes. Rapidly-growing internet-based streaming is bypassing cable, broadcast and satellite television.

WHAT IS AN OTT PLATFORM?

An over-the-top (OTT) platform is a media service offered directly to viewers via the Internet. OTT bypasses cable, broadcast and satellite television platforms. It is mostly synonymous with subscription-based video-on-demand (SVOD) services that offer access to film and television content including existing series and original content produced for the service.

ACCESSIBILITY

Over-the-top services are typically accessed via websites on personal computers, mobile devices, digital media or televisions with integrated Smart TV platforms. OTT platforms are easily accessible with good internet connection and for a fair price one can enjoy movies and shows without commercials, from anywhere. Consumers can access OTT content through Android and iOS mobile devices, smart TVs, set-top boxes, gaming consoles, tablets, desktop and laptop computers.

WORLDWIDE POPULARITY

People accept this medium simply because they can find relatable content that they are familiar with. The pandemic situation back in 2020 started revolutionising the sector even more. Many streaming platforms like Netflix, Amazon Prime and Hulu are all known internationally for their wide base of audiences. Netflix and Amazon Prime are popular choices in India as well.

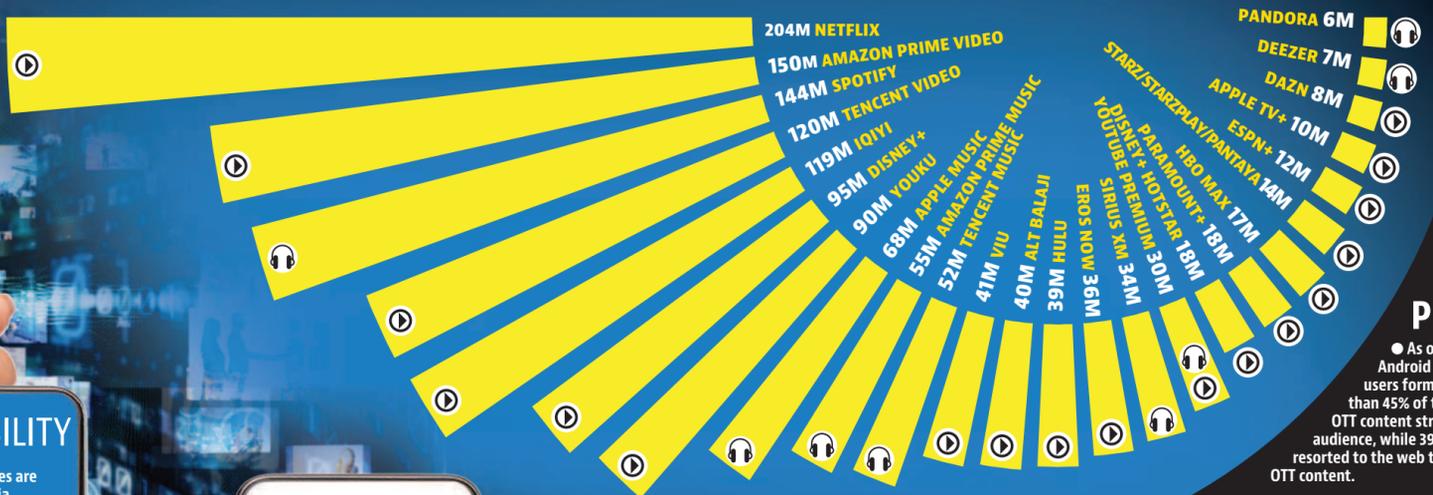
FUTURE READY

It is anticipated that with the arrival of 5G, the consumption of media by viewers will increase. With the development of technology, these platforms will become more and more affordable for the general section of the population. The dominance of certain platforms like Netflix will cease to exist.

MOST SUBSCRIBED STREAMING SERVICES

Video Audio

BASED ON DATA UPDATED TILL FEB 2021



KEY POINTS

- As of 2019, Android and iOS users formed more than 45% of the total OTT content streaming audience, while 39% of users resorted to the web to access OTT content.
- According to KPMG Media and Entertainment Report 2018, the OTT market in India is expected to grow 45% to reach ₹138 billion by the end of fiscal 2023.
- The OTT market in India was worth ₹2,150 crore in 2018 and its value grew to ₹35 billion in 2019.

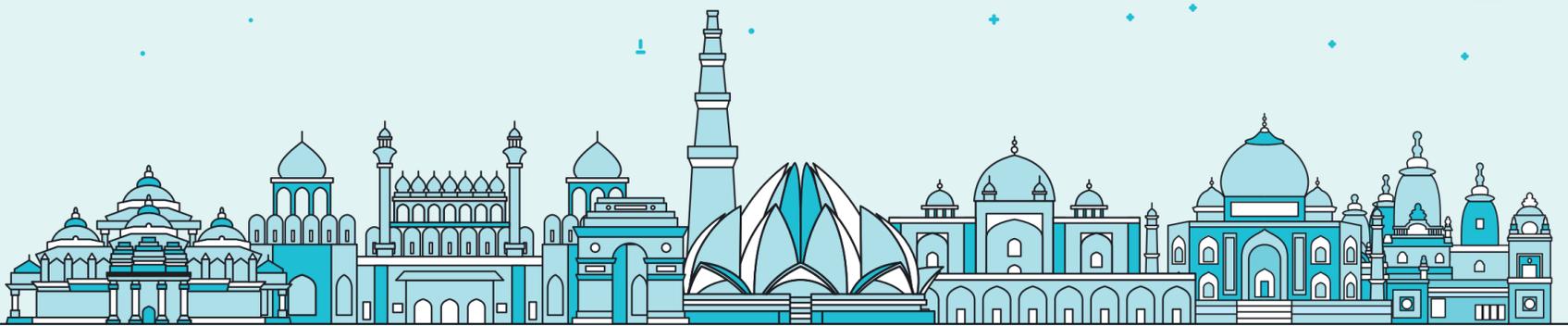
OTT IN INDIA

The first dependent Indian OTT platform was BIGFlix, launched by Reliance Entertainment in 2008. Zee5 and Hotstar dominate the regional OTT space along with AltBalaji and Voot, SonyLIV and many more. Such platforms offer customised content. OTT platforms such as Hoichoi, Addatimes, Aha and Ullu focus on regional language content.

GOVT GUIDELINES

This year, the Union government released rules to bring OTT content under the standards of censorship applicable to entertainment content platforms. The intermediary and digital media norms require OTT & digital news platforms to appoint grievance redressal officers, institute a 3-tier mechanism with an inter-ministerial committee and give the government takedown powers classify content as follows: 'U' or universal rating, and those for 7+, 13+, 16+ and 18+ age groups

SOURCE: HT ARCHIVE, WIKIPEDIA



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NEW SEMESTER BEGINS AMID COVID RISE

Largest colleges in US push student vaccines with mandates, prizes

Associated Press

STORRS, CONN.: At most of the largest US public universities, students are under no obligation to be vaccinated against Covid-19. Some schools do require vaccines, but with leniency for those who opt out. Still others have expelled students who do not comply.

As a new semester begins amid a resurgence of the coronavirus, administrators and faculty nationwide see high vaccination rates as key to bringing some normalcy back to campus. Where mandates face political opposition, schools are relying on incentives and outreach to get more students vaccinated. An analysis by the Associated Press shows 26 of the nation's 50 largest public university campuses are not requiring vaccination, representing roughly 55% of students enrolled at those schools. The AP looked at the largest campuses by 2019-2020 enrollment that offer on-campus housing and award bachelor's degrees.

Universities with vaccine mandates are concentrated in the Northeast and California. Almost all of those without mandates are in states that have restricted the ability to implement vaccine requirements, including Florida, Texas and Arizona.

University of Connecticut

Students are required to be vaccinated, but the school has been lenient with those opposed to getting the shots. Officials are working with students who have not complied to

understand their concerns. The campus set up clinics for unvaccinated students to get shots as they arrive. Ten cases have been recorded among students since the semester began, according to UConn, where officials say 97% of students are vaccinated.

University of Central Florida

The Orlando campus is holding a raffle with prizes for vaccinated students, offering the shots and rolling out a campaign urging students to get "Vacci-Knighted" — a play on the name of its sports teams, the Knights.

But an executive order from Republican Gov. Ron DeSantis prevents the school from mandating vaccines.

Many professors are scared because they don't know who is vaccinated, said Joseph Harrington, a physics professor. He's part of a group of state faculty petitioning the governor to allow schools to set their own policies.

In the first week of classes, random sampling found 72.6% of those surveyed had at least one vaccine dose. He said the school is using incentives to try to push that number higher, including the raffle where vaccinated students have a chance to win textbooks, computers and \$5,000 worth of tuition and fee waivers.

University of Virginia

Students who don't comply with a school vaccine mandate or apply for a religious or medical exemption have been asked to leave. Near the start of the semester, 193 students had been unenrolled for not getting the shots, according to Dr. Christopher Holstge, director of student health and wellness. He said the policy aligns with requirements that students be vaccinated for other diseases such as measles and mumps. The university called and sent emails to students who had not complied to work with them on getting their shots or an exemption, said Susan Davis, vice president for student affairs. She said all of those who were unenrolled will be welcomed back in January or later if they follow the mandate.



Ten Covid-19 cases have been recorded among students since the semester began, according to University of Connecticut (in the picture) officials

Covid-19 cases, deaths in US up, wiping out months of progress

Associated Press

WASHINGTON: Covid-19 deaths and cases in the US have climbed back to levels not seen since last winter, erasing months of progress and potentially bolstering President Joe Biden's argument for his sweeping new vaccination requirements. The cases are concentrated mostly in the South.

While one-time hot spots like Florida and Louisiana are improving, infection rates are soaring in Kentucky, Georgia and Tennessee, fueled by children now back in school, loose mask restrictions and low vaccination levels.

"The problem now is we have been trying to educate based on science, but I think most of the education that is

happening now is based on personal tragedy," said Dr. Ryan Stanton, in Kentucky. The US is averaging over 1,800 Covid-19 deaths and 170,000 new cases daily, the highest levels respectively since March and late January. And both figures have been on the rise over the past two weeks.

The country is still below the terrifying peaks reached in January, when it was averaging about 3,400 deaths and a quarter-million cases daily. The US is dispensing about 900,000 vaccinations daily, down from a high of 3.4 million in mid-April. On a positive note, the number of Covid-19 patients now in the hospital appears to be leveling off or even declining at around 90,000, or about where things stood in February.

The public art installation Gratitude, that paid tribute to Covid-19 warriors, was on display in Manchester recently. On view is a section of the installation.



ART SALUTES COVID FIGHTERS

A public art installation titled Gratitude, that was on display in Manchester, Britain, recently, comprised a spectacular array of beautifully painted human form sculptures. The creation paid tribute to health workers and other allied services, the members of which are helping battle the Covid-19 pandemic with courage and dedication. The exhibition was curated in partnership with creative ambassador Dame Zandra Rhodes and consisted of 51 sculptures.

The colourful sculptures were designed by professional artists and designers from across Britain



The exhibit was curated in partnership with creative ambassador Dame Zandra Rhodes



A visitor views some of the sculptures on display at the event

The captivating exhibition comprised 51 brightly coloured sculptures



HT CHRONICLE September 16 >>from the archives of the Hindustan Times



'Delhi' symbol of India's strength

Bombay - India's Prime Minister, Pandit Nehru, today welcomed the arrival, in Bombay harbour of H.M.S. 'Delhi', the Royal Indian Navy flagship and formerly H.M.S. 'Achilles' of the River Plate fame.

Facing the placid deep blue waters of the Arabian Sea and waving silence to thousands of people who thronged at the quayside and cheered 'Pandit Nehru-ki-jai', India's Prime Minister in a 15 minute speech reviewed India's

great heritage of "unity amidst diversity."

"Free India desires peace and freedom," Pandit Nehru said, adding "but, unfortunately in the world today it is not enough to desire peace merely but we must have the strength and the determination to preserve it against any threat."

Pandit Nehru emphasized "we have to concentrate now on India's essential unity and remember that we are one and united. All differences or sections

or groups must be forgotten," he declared.

Pandit Nehru said that it was a proud day "not only from the point of view of Indian Navy but from the point of view of the defence of India." It was, therefore, that in spite of his preoccupations he thought it necessary and desirable that he should greet H.M.I.S. Delhi.



Vijay beats Nastase to claim title

CHARLOTTE, North Carolina, Sept. 15 (AP)—India's Vijay Amrithraj, a last minute substitute who was not included in the original field, yesterday captured the men's singles title in the Carolina's International tennis tournament beating Ilie Nastase of Rumania 3-6, 7-5, 6-4.



Vijay beats Nastase to claim title

Charlotte, North Carolina - India's Vijay Amrithraj, a last minute substitute who was not included in the original field, yesterday captured the men's singles title in the Carolina's International tennis tournament beating Ilie Nastase of Rumania 3-6, 7-5, 6-4.

The young Indian's victory came after Czechoslovakia's Martina Navratilova had taken

the women's title from Evonne Goolagong of Australia 4-6, 6-2, 7-6.

Amrithraj who filled in for Manuel Orantes of Spain in the eight player field yesterday, said "It was a big thrill to win here," said Amrithraj. "It's been a lot of fun."

Amrithraj had beaten Bjorn Borg on Saturday in what was considered an upset.

1975

Princess Grace dies of injuries

Monaco - Princess Grace of Monaco died last night, after suffering severe external and internal injuries in a spectacular car accident on Monday on a road outside of the principality. She was 52.

The announcement came as a shock in Monaco, although rumours had circulated since late afternoon that Grace's condition has become critical. The Casino, the Hotel of Paris and establishments of the principality's Societe Des Bains de Mer All closed their doors.

An official statement said Princess Grace died at 2 a.m. IST (20:30 GMT). The cause of death was listed as a vascular cerebral hemorrhage, or internal bleeding in the skull. The cause of the accident that cost Princess Grace's life was



Princess Grace dies of injuries

MONACO, Sept. 15 (AFP) - Princess Grace of Monaco died last night, after suffering severe external and internal injuries in a spectacular car accident on Monday on

unclear. She was returning with her daughter Stephanie, 17, from a retreat in Roc Agel, near the hillside town of La Turbie in France.

Immediately after the accident Grace and Stephanie were hospitalized at the Princess Grace Hospital in Monaco, although Stephanie suffered only slight injuries.

A statement on Monday said the ear, a Rover-3500, was being driven by Princess Grace herself. She noted a "deficiency in the braking system", the statement said. Later, French police said there was no trace of braking at the turn where the car left the road.

But as of early Wednesday, after the announcement, it remained unclear whether the brakes actually failed.

1982

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ALMOST ALL OF THE WORLD'S GLACIERS ARE SHRINKING VERY FAST

Scientists scramble to harvest ice cores as glaciers, ice sheets melt

An ice core is a core sample that is typically removed from an ice sheet or a high mountain glacier. Since the ice forms from the incremental buildup of layers of snow, lower layers are older than upper, and an ice core contains ice formed over a range of years.



Almost all of the world's glaciers are shrinking, according to the United Nations. In its most comprehensive climate report to date, published in August, the UN concluded that "human influence is very likely the main driver of the near-universal retreat of glaciers globally since the 1990s."

Reuters

COLUMBUS, OHIO: Scientists are racing to collect ice cores – along with long-frozen records they hold of climate cycles – as global warming melts glaciers and ice sheets. Some say they are running out of time. And, in some cases, it's already too late.

Late last year, German-born chemist Margit Schwikowski and a team of international scientists attempted to gather ice cores from the Grand Combin glacier, high on the Swiss-Italian border, for a United Nations-backed climate monitoring effort.

In 2018, they had scouted the site by helicopter and drilled a shallow test core. The core was in good shape, said Schwikowski: It had well-preserved atmospheric gases and chemical evidence of past climates, and ground-penetrating radar showed a deep glacier. Not all glaciers in the Alps preserve both summer and winter snowfall; if all went as planned, these cores would have been the oldest to date that did, she said.

But in the two years it took for the scientists to return with a full drilling set-up, some of the information that had been trapped in the ice had vanished. Freeze-thaw cycles had created icy layers and meltwater pools throughout the glacier, what another team member described as a water-

laden sponge, rendering the core useless for basic climate science.

The sudden deterioration "tells us exactly how sensitive these glaciers are," said Schwikowski, head of the analytical chemistry group at the Paul Scherrer Institute in Villigen, Switzerland. "We were just two years too late." The mission on Grand Combin underscores the major challenge scientists face today in collecting ice cores: Some glaciers are disappearing faster than expected.

The realisation is prompting renewed urgency, causing those who specialise in harvesting ice cores to accelerate missions, rethink where to target next, and expand storage capacity. Almost all of the world's glaciers are shrinking, according to the United Nations. In its most comprehensive climate report to date, published in August, the UN concluded that "human influence is very likely the main driver of the near-universal retreat of glaciers globally since the 1990s." The report also said that without immediate, large-scale action, the average global temperature will reach or exceed 1.5°Celsius above the preindustrial temperature average within 20 years.

The pace at which glaciers are losing

mass is also increasing. A study published in April in the science journal Nature found glaciers lost 227 gigatons of ice annually from 2000 to 2004, but that increased to an average of 298 gigatons a year after 2015.

'Complete shock'

Last September, Schwikowski stood bundled in snow gear as wet cylinders of ice were winched out of the boreholes on Grand Combin. The wetness surprised her, she said. Frigid meltwater drained from ice core pieces that should have been solid. And the core, which should have been translucent, had sections that were perfectly clear.

Ice cores like those from Grand Combin have helped scientists illustrate humanity's impact on earth's climate by providing a record of greenhouse gases dating back well before industrialisation.

The ice preserves tiny air bubbles – direct evidence of past atmospheres. Ice also captures air pollutants, pollen and other temperature and precipitation measures in a single archive, all on the same time scale, sometimes at the resolution of individual seasons.

Another member of the Grand Combin expedition, Italian climate scientist

Carlo Barbante, said the speed at which the ice on the Alpine massif had melted in the last few years was "much higher than it was before." Finding the wet cores was a "complete shock," he said.

As a result, Barbante and other scientists – including Schwikowski – sped up plans to extract a core from the Colle Gnifetti glacier on the summit of the Alps' Monte Rosa, a few hundred meters higher than Grand Combin. In June, several months earlier than originally scheduled, they launched. The two cores they drilled were of good quality, Barbante said.

One study cited in the recent UN report calculated that present-day warming has already set in motion melting that will eliminate all glaciers on the mountain by 2060.

Expanding ice storage

Beyond greenhouse gases, scientists say they may be able to use ice cores to study the DNA of ancient bacteria and viruses that could reemerge as the world warms. Frozen insects and plant pollen could also reveal histories of the world's forests and their fire cycles. Another team of scientists, whose findings were published in July in scientific journal Microbiome, found viruses nearly 15,000 years old in two ice core samples taken from the Tibetan Plateau in China. The findings identified genetic codes for 33 viruses, at least 28 of which were new to scientists.

That team of scientists included U.S.-based ice core paleoclimatologists Lonnie Thompson and Ellen Mosley-Thompson, who are husband and wife. Lonnie Thompson said the speed at which ice is disappearing has driven plans to expand his ice core storage facilities at Ohio State University, which he began fundraising for last year. He hopes to raise \$7 million. So far he has raised about \$475,000 through donations and pledges, according to the school's Byrd Polar and Climate Research Center. The renovation will double the facility's storage capacity to more than 13,550 meters of ice cores.

INSPIRATION4 QUARTET RARING TO GO

All-civilian SpaceX crew feels only 'good kind' of jitters before launch

Reuters

CAPE CANAVERAL, FLA. : The four would-be citizen astronauts poised to ride a SpaceX rocket ship around the globe as the first all-civilian crew launched into orbit said on Tuesday they were eager for liftoff on the eve of their flight, feeling only "the good kind" of jitters.

"I was just worried that this moment would never come in my life. Let's get going, let's do it," said Sian Proctor, 51, a geoscience professor, artist and lifelong space enthusiast who was a 2009 finalist in Nasa's astronaut candidate program before she was cut. Proctor also disclosed she and her flightmates received a telephone call from one of her personal heroes, former first lady Michelle Obama, wishing them well, an honor she said "would stay with me the rest of my life."

The Inspiration4 quartet are due for liftoff as early as 8 pm on Wednesday from launch complex 39A at the Kennedy Space Center in Cape Canaveral, Florida, for an orbital flight expected to last about three days before splash-down. Proctor and her crewmates - billionaire e-commerce executive and jet pilot Jared Isaacman, 38, physician assistant Hayley Arceneaux, 29, and aerospace data engineer Chris Sembroski, 42 - took reporters' questions at a pre-launch briefing inside a SpaceX hangar a little more than 24 hours before launch time.

Behind them, visible in the distance through the hangar's open doors, stood the SpaceX Falcon 9 rocket and Crew Dragon capsule designed to carry them to a targeted orbital altitude of 575 km over the Earth - higher than the International Space Station. That is far beyond the inaugural astro-tourism flights made this summer by SpaceX rivals Virgin Galactic and Blue Origin, which carried their respective billionaire founders - Richard Branson and Jeff Bezos - along for the ride.

Those two suborbital trips, while high enough for their crews to experience a few moments of microgravity, were over in a matter of minutes.



A SpaceX Falcon 9 rocket with the Crew Dragon spacecraft launch pad 39A at Nasa's Kennedy Space Center at Cape Canaveral in Florida.

The high-orbital flight planned for Inspiration4 carries greater risks, including more exposure to radiation in space. But the crew members professed the utmost confidence in SpaceX, the private California-based rocket company founded by billionaire entrepreneur Elon Musk.

Isaacman, founder and chief executive of electronic financial services company Shift4 Payments Inc, is the mission's originator and benefactor, having paid Musk an undisclosed but presumably enormous sum to fly all four crew members into orbit.

Musk joined in on a pre-flight "check-in" call on Tuesday, "and did give us his assurances that the entire leadership is solely focused on this mission," Isaacman said when asked about pre-launch nerves. "No jitters, just excited to get going." Arceneaux, a childhood bone cancer survivor who now works with young lymphoma and leukemia patients at St. Jude Children's Research Center in Memphis, Tennessee, which the Inspiration4 mission was designed largely to promote, said she was "just so excited." "Any jitters are the good kind," she added. "I'm just waiting for tomorrow to get here." Joining Tuesday's event was at least one retired Nasa astronaut, Catherine "Cady" Coleman, 60, a veteran of two space shuttle missions who spoke up to wish the Inspiration4 crew well, telling them: "We want to welcome you to the family."

Hindustan Times
PRESENTS

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FIRST VOICE. LAST WORD.

IPL 2021

Limited spectators to be allowed at IPL 2021

NEW DELHI: Limited spectators will be allowed into the stadiums when the much awaited Indian Premier League resumes in the UAE this weekend, the event's organisers announced on Wednesday.

The IPL, which was suspended midway in May due to Covid-19 cases in its bio bubble, will resume on Sunday with defending champions Mumbai Indians taking on Chennai Super Kings at the Dubai International Cricket Stadium. "This match will be a momentous occasion as IPL will welcome the fans back to the stadiums after a brief hiatus owing to Covid-19 situation," an IPL statement said. "Matches will be played at Dubai, Sharjah and Abu Dhabi with limited seating available keeping in mind the Covid protocols and UAE government regulations."

It will be the first time since 2019 when the IPL will be played in front of an audience. Last year, the lucrative league was played behind closed doors in the UAE while the first half of the 2021 edition was also played inside a strict bio-bubble across various venues in India.



Shreyas Iyer (L) and Md Kaif. PTI

Although the league organisers did not specify the exact number of fans who would be let in but sources said their presence would be 50 per cent of the stadium capacity. "Fans can buy tickets starting September 16 for the remainder of the tournament on the official website www.iplt20.com. Tickets can also be purchased on PlatinumList.net," the league organisers said.

After the pandemic had brought the sporting world to a standstill last year, competitive cricket slowly resumed inside strict bio bubbles.

ner Washington Sundar is the other in the top-20 at 18th place.

Yuzvendra Chahal is the only bowler who has shown improvement and is now 25th although he has been dropped from the Indian team for the T20 World Cup.

In the all-rounders' list, the only Indian among the top-20 is Hardik Pandya, who is just about managed to make the list with 98 points.

The Indians last played a T20 series in Sri Lanka and hence hasn't played any games in the shortest format.

Bangladesh fast bowler Mustafizur Rahman has moved up two places to eighth after finishing with eight wickets in the series against South Africa while Nasum Ahmed (up 25 places to 15th) and Mehedi Hasan (up four places to 20th) have also made notable progress.

However, Shakib Al Hasan has conceded the top spot for all-rounders to Afghanistan's Mohammad Nabi.

In the ODI rankings for batters, Jaskaran Malhotra of the United States, who struck sixes in an over from Papua New Guinea's Gaudi Toka in a World Cup Super League 2 match, has rocketed 169 places to 132nd.

In the bowlers' list, Nepal leg-spinner Sandeep Lamichhane is now in top-100 at 91st place.



Ashleigh Barty. USA TODAY SPORTS

metres (above sea level) and they're using pressure-less balls," Tyzzer said on Wednesday. "Pressure-less balls absolutely fly. It's a ball that, if you use it in normal conditions, it doesn't bounce. It's not the greatest advertisement for the best girls in the world to be playing something they've never done before. In conditions they've never played, in a country they don't play and at altitude, I just feel it's ridiculous. As a spectacle, it's just frightening."

TENNIS

Barty's WTA Finals defence in doubt

NEW YORK: World No.1 Ash Barty might not defend her title at the season ending WTA Finals in Mexico because of the "ridiculous" playing conditions at the venue and the timing of the tournament, her coach Craig Tyzzer said.

The WTA Finals, contested by the world's top eight singles players and eight doubles teams, were moved to Guadalajara from Shenzhen this week due to the Covid-19 pandemic and will begin on November 8.

Tyzzer said Barty, who won the 2019 WTA Finals before the 2020 edition was cancelled, might also compromise her 2022 Australian Open preparation if she plays in Mexico as she would have to undergo two weeks of home quarantine on her return to Australia. "We only just found out it's in Mexico at 1,500

SURFING



Brazilian surfer Gabriel Medina competes during the Rip Curl World Surf League Final at Lower Trestles in San Clemente, California, on Tuesday. Carissa Moore, who won the first ever Olympic gold in women's surfing in Tokyo, won her fifth world title and Medina his third world title. AFP

CHAMPIONS LEAGUE



Manchester United's Cristiano Ronaldo (R) fights for the ball with Young Boys' Christopher Martins during the Champions League Group F match in Bern on Tuesday. AFP

United dealt shock loss, Lukaku boosts Chelsea

Agence France-Presse

sportsdesk@hindustantimes.com

PARIS: Manchester United slumped to a shock 2-1 loss at Young Boys despite a goal from Cristiano Ronaldo in their Champions League opener on Tuesday while Chelsea kicked off their title defence by beating Zenit.

Robert Lewandowski struck twice for Bayern Munich as the German heavyweights inflicted a 3-0 defeat on Barcelona at Camp Nou in their first European game since the departure of Lionel Messi.

Ronaldo, the leading scorer in Champions League history, bagged his 135th goal in the competition after 13 minutes in Bern, but Swiss champions Young Boys hit back after the sending-off of Aaron Wan-Bissaka.

The United defender saw red for a dangerous tackle on Christopher Martins before half-time. Nicolas Moumi Ngamaleu equalised in the second half

before Jordan Siebatcheu snatched the winner with the final kick. "It's the first game in the group. We've got many games to bounce back and we must do," said United captain Harry Maguire. "We'll try and pick up three points in our next game and build momentum from there."

United host Villarreal in two weeks. The Spaniards, who beat Ole Gunnar Solskjaer's men in last season's Europa League final, drew 2-2 at home to Atalanta in the other Group F match.

Remo Freuler gave Atalanta the lead but Villarreal responded with goals from Manu Trigueros and Arnaut Danjuma. Robin Gosens popped up with a late equaliser.

Romelu Lukaku broke the deadlock for Chelsea after 69 minutes at Stamford Bridge to earn the holders a 1-0 victory over Zenit, whose Krestovskiy Stadium in Saint Petersburg is the venue for next May's final.

Lukaku headed in Cesar Azpilicueta's cross to give Thomas Tuchel's team a winning start in Group H. "The guys who are there to score regularly for their teams are so important because one goal changes the whole momentum of the match," Tuchel said of Lukaku.

Juventus top the section after the opening round following their 3-0 win away to Malmo of Sweden.

Alex Sandro headed Juve ahead and Paulo Dybala converted a penalty before Alvaro Morata notched a third for a side that has picked up just one point from three games in Serie A.

Bayern stretched their record unbeaten away run in the Champions League to 19 games by sweeping aside Barca in the first meeting between the clubs since the Germans triumphed 8-2 in a one-off quarter-final last year.

Thomas Mueller put Bayern on top on 34 minutes and Lewandowski netted twice in the second half to send

Julian Nagelsmann's side top of Group E. "We came to win this game and we knew that we had to show respect to Barcelona," said Lewandowski. "When you play at the Camp Nou against them they are always dangerous. But we had this game under control and we showed we were here for the three points."

Dynamo Kiev had to settle for a 0-0 draw at home to Benfica after Ukraine international Mykola Shaparenko's injury-time effort was ruled out for offside.

Sevilla rode their luck in an eventful 1-1 draw against Salzburg. The Austrians missed two of three first-half penalties, with Karim Adeyemi firing wide from the spot and Luka Sucic hitting the post having earlier converted Salzburg's second penalty. Ivan Rakitic levelled for Sevilla with another spot-kick before the interval. Youssef En-Nesyri was sent off early in the second period for the home side.

Djokovic marches on as 'Big Three' era draws to a close

Reuters

sportsdesk@hindustantimes.com

NEW YORK: Novak Djokovic's single-minded drive towards greatness makes it almost unthinkable that he would rest before owning every tennis record in the book, but some are questioning whether his hunger will survive the departure of his two main rivals.

The Serbian came within one win of a 21st Grand Slam title last week that would have moved him clear of a tie with Roger Federer and Rafa Nadal and also made him the only man in 52 years to claim all four major titles in the same year.

Djokovic will hope his loss to Daniil Medvedev in Sunday's US Open final was just a blip and few would bet against him resuming normal service in January at the Australian Open, where he will be seeking a record 10th title.

Neither 40-year-old Federer or Nadal, 35, were in New York because of injuries and if their careers have not quite reached an end, they are certainly well into the beginning of the end.

Daniel Vallverdu, who has coached some of the best players outside the 'Big Three' over the last decade in Andy Murray, Stan Wawrinka and Juan Martin del Potro, is intrigued about what that means for Djokovic.

"As long as Roger and Rafa are still playing there's going to be a big motivation for Djokovic to keep going," the Venezuelan said.

"It will be very interesting to see what happens with Novak after Roger and Rafa decide to stop. If they're still around, he will still have



Serbian Novak Djokovic has won 20 Grand Slam singles titles alongside Swiss Roger Federer and Spaniard Rafael Nadal. USA TODAY SPORTS

a lot of drive."

Australian Todd Woodbridge, a nine times Wimbledon doubles champion and a singles semi-finalist, told Wide World of Sports that Djokovic needs Federer and Nadal to challenge him and while the Serbian might still win couple of more majors, the domination of the 'Big Three' was over.

Djokovic admitted in New York that he had been exhausted by the physical and emotional toll of his incredible run at majors in 2021 but said the desire for more success remained.

If he is lacking any motivation, there are still a few milestones to keep him focused.

Having already bettered Federer's record for the longest spell at the top of the men's world rankings, he could overhaul Steffi Graf's all-comers mark for the sport—377 weeks—in June next year.

A 37th Masters 1000 title would edge him ahead of Nadal as the most successful player in those elite tournaments while another French Open title would make him the only player in the Open era to have won all four Grand Slam titles three times.

Presuming he lands Grand Slam title No.21, the next big mark would be Margaret Court's 24 major crowns, a record that Serena Williams has also been chasing since winning her 23rd in 2017.

ST LUCIA KINGS AND ST KITTS AND NEVIS PATRIOTS CRUISE TO CARIBBEAN PREMIER LEAGUE FINAL

Press Trust of India

sportsdesk@hindustantimes.com

BASSETTERE (ST KITTS & NEVIS): Saint Lucia Kings and St Kitts and Nevis Patriots registered thrilling victories in their respective semi-finals to enter the final of the Caribbean Premier League.

While the Patriots registered a dominant seven-wicket victory over the Guyana Amazon Warriors, the Kings stormed to their second consecutive final with a 21-run win over defending champions Trinbago Knight Riders.

The Patriots won the toss and chose to field first. Despite a bright start from the Warriors openers, wickets tumbled in the middle overs before a late burst from Shimron Hetmyer (45 not out) took his side to a substantial 178/9.

In their chase, the Patriots once again opted to open with Chris Gayle (42), and he laid the platform for a successful chase, lashing the ball into the stands on numerous occasions, before Evin Lewis (77 not out) then took over to guide his side to a crushing victory.

The Warriors consolidated after losing Brandon King in the fourth over of their innings, with Chandrapaul Hemraj and Shoaib Malik patiently building. However, three wickets in three successive overs, including that of captain Nicholas Pooran, saw the side collapse, reaching 131/8 at one point.

Spinners Jon-Russ Jaggesar (2/19) and Fawad Ahmed (2/22) were exceptional for the Patriots.