



THE PULSE OF HBTU

Fortnightly Newsletter

YEAR II
1 JANUARY, 2021
Friday

PSMSC wishes all a very Happy New Year



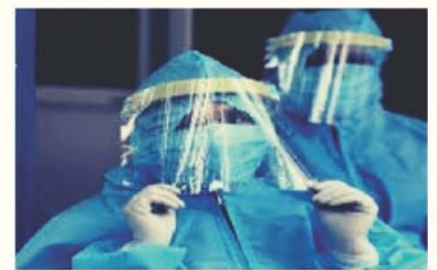
Person of the year: 'Frontline Warrior'



On January 31, 2020, the World Health Organization (WHO) declared the corona virus outbreak a Public Health Emergency of International Concern. In the current scenario where the entire world is grappling with the appropriate measures that needs to be adopted in order to curb the spread of the COVID – 19 pandemic, it threatens us to become an endemic like

HIV as warned by the World Health Organisation's latest reports. Health workers are identified as the frontline workers of the COVID – 19 outbreak response by the World Health Organisation and it is a known fact that they are of utmost importance in alleviation of this current calamity.

Going to work during this COVID-19 pandemic has placed frontline workers under immense and unprecedented pressure, putting their physical, mental and social well-being at risk. Exposure to excessive stress, for prolonged periods can have many harmful consequences on the emotional and mental well-being of frontline workers. Rather than thinking about all these risks under which the FLWs are working; they are putting all what it takes to provide welfare services even if it is on the smallest scale.



It is impossible to reimagining health systems that can achieve better outcomes and social justice goals without a diverse, resilient, well-protected health workforce for all. People drive health system performance—from national ministers of health at the top level to health workers on the front lines seeking to reach the most underserved populations. The problem is that there is an estimated shortfall of 18 million health workers worldwide. And, in too many contexts whether during crises or when making routine decisions, planners and policymakers do not have a clear picture about how many health workers are actually available and ready to address their communities' challenges.

'Simply put, without frontline health workers, there would be no health services for millions of children and their families in the low- and middle-income countries like India'.

"The unparalleled role of the frontline medical staff and their endeavour in these days of crisis needs no fancy words to be put up to describe..."

We all are involved in this battle together and we salute all the 'Superheroes' for their 'Selfless Service'.

HULT PRIZE- TEAM FOODACITY



Team leader: Mayank Khanna 2nd CHE

Members: Anushree Trivedi 2nd CHE
Suharsh Mahajan 2nd CHE
Sonakshi 2nd FT

"The team Foodacity is elated on securing the first position at the on-campus round of HULT PRIZE. It was a wonderful experience. We are thankful to the Hult Prize team as well as the global team".

In a few short years, the Hult Prize has become one of the most prestigious student competitions in existence today, offering teams unparalleled opportunities and resources. With the goal of educating and engaging students at its core, this truly international prize has created a platform to support the launch of social enterprises that are tackling seemingly intractable global challenges

Daily events and quizzes been organized are actually really fun to be a part of and all what you're expected is to pitch the idea and you can be a winner of such events as "Team Foodacity".

Internships' Update

Suez Final Selections



Sugat Pandey	ME
Amaan Anjum	CHE
Deepika Juneja	CSE
Shivangi Dubey	CSE
Akriti Shairawat	CSE
Yuvraj Singh	EE



Ayush Kumar	CSE
Naredndra Sehravat	CSE
Sundaram Dubey	CSE
Rigved Sambyal	CSE
Shiv Sagar	ET
Vishal Singh	CHE

With CTC of 8 LPA and 1 lakh bonus, total 9 LPA
And 20k per month intern starting from January,
duration of 6 months.

Placement's Update

Paytm Placement

Ayush Kumar	CSE
Naredndra Sehravat	CSE
Sundaram Dubey	CSE
Rigved Sambyal	CSE
Shiv Sagar	ET
Vishal Singh	CHE

TCS Placements

Name	Offer Type	Institute Name
Madhav Singh	Digital_Upgrade	Harcourt Butler Technical University, Kanpur
Shubham Srivastava	Digital_Upgrade	Harcourt Butler Technical University, Kanpur
Shruti Mishra	Ninja	Harcourt Butler Technical University, Kanpur
Astha Gupta	Ninja	Harcourt Butler Technical University, Kanpur
Hari Krishna	Ninja	Harcourt Butler Technical University, Kanpur
Anurag Dwivedi	Ninja	Harcourt Butler Technical University, Kanpur
Ravinder Singh	Ninja	Harcourt Butler Technical University, Kanpur
Sundaram Dubey	Ninja	Harcourt Butler Technical University, Kanpur
Disha Singh	Ninja	Harcourt Butler Technical University, Kanpur
Chandan Maurya	Ninja	Harcourt Butler Technical University, Kanpur
Shaivya Dixit	Ninja	Harcourt Butler Technical University, Kanpur
Ankit Gupta	Ninja	Harcourt Butler Technical University, Kanpur
Tushar Singh	Ninja	Harcourt Butler Technical University, Kanpur
Gaurang Shukla	Ninja	Harcourt Butler Technical University, Kanpur
Shatrughan Singh	Ninja	Harcourt Butler Technical University, Kanpur
BHAWNA GOLANI	Ninja	Harcourt Butler Technical University, Kanpur
Dhairiy Tripathi	Ninja	Harcourt Butler Technical University, Kanpur
Shardendu Awasthi	Ninja	Harcourt Butler Technical University, Kanpur
Rishabh Shukla	Ninja	Harcourt Butler Technical University, Kanpur
ASHISH KUMAR PANDEY	Ninja	Harcourt Butler Technical University, Kanpur
SudhanshuTripathi	Ninja	Harcourt Butler Technical University, Kanpur
ManasVarshney	Ninja	Harcourt Butler Technical University, Kanpur
Richa Sharma	Ninja	Harcourt Butler Technical University, Kanpur
Shalabh Agarwal	Ninja	Harcourt Butler Technical University, Kanpur
Rishabh Pandey	Ninja	Harcourt Butler Technical University, Kanpur
Shiv Singh	Ninja	Harcourt Butler Technical University, Kanpur
Abhishek Chaurasia	Ninja	Harcourt Butler Technical University, Kanpur
VIVEK KUMAR VERMA	Ninja	Harcourt Butler Technical University, Kanpur
Vishal Singh	Ninja	Harcourt Butler Technical University, Kanpur
RigvedSambyal	Ninja	Harcourt Butler Technical University, Kanpur

Nepal's apex court forwards write petitions against Parliament's dissolution to Constitutional Bench

The Supreme Court of Nepal on Wednesday started hearing writ petitions filed against the dissolution of the House of Representatives of Nepal by President Bidhya Devi Bhandari. The court then forwarded the petitions to a Constitutional Bench.

The Constitutional Bench, headed by Chief Justice Chandra Shumsher J.B. Rana, will start hearing the petitions from Friday.

Prime Minister K.P. Sharma Oli recommended President Bhandari to dissolve Parliament after he briefed his Cabinet colleagues during an emergency meeting on December 20.

The Constitutional Bench will be in focus for the next few days as the Nepal Communist Party appears divided between two factions led by Mr. Oli and co-chair of the party Pushpa Kamal Dahal 'Prachanda'.

The Bench will examine the constitutionality of the decision to dissolve the house especially as the 2015 Constitution does not allow for such a move for political necessities.

All About the New Coronavirus variant in Britain

A new variant of the pandemic SARS-CoV-2 coronavirus is spreading rapidly in Britain and prompting high levels of concern among its European neighbors, some of which have cut transport links.

The strain, referred to by some experts as the B.1.1.7 lineage, is not the first new variant of the pandemic virus to emerge, but is said to be up to 70% more transmissible than the previously dominant strain in the United Kingdom.

The new variant has rapidly become the dominant strain in cases of COVID-19 in parts of southern England, and has been linked to an increase in hospitalization rates, especially in London and in the adjacent county of Kent.

While it was first seen in Britain in September, by the week of December 9 in London, 62% of COVID-19 cases were due to the new variant. That compared to 28% of cases three weeks earlier.

The governments of Australia, Italy and the Netherlands say they detected cases of the new strain. It was identified in the Netherlands in early December.

A few cases of COVID-19 with the new variant have also been reported to the ECDC, Europe's disease monitoring agency, by Iceland and Denmark. Media reports in Belgium say cases have also been detected there.

India's leopard population increases by 60%, reaches 12,852: Govt report



The population of leopard in India has increased by 60 per cent, according to a report released by the government on Monday. The 'Status of Leopard in India 2018' report, released by Union environment minister Prakash Javadekar, said that India now has 12,852 leopards.

"More than 60 per cent increase in population has been recorded over the previous estimate which was conducted in 2014," Javadekar said after releasing the report. He also mentioned the states which have the highest number of leopards. "Congratulations to the States of MP (3,421), Karnataka (1783) and Maharashtra (1690) who have recorded the highest leopard estimates. Increase in Tiger, Lion & Leopards population over the last few years is a testimony to fledgling wildlife & biodiversity," Javadekar said on Twitter.

Leopards are among the most adaptable carnivores, and are known to exist very close to human habitations. A study earlier this year had found four distinct sub-populations of leopards in India with high genetic variations – leopards of the Western Ghats, the Deccan Plateau semi-arid region, the Shivalik mountains, and the Terai region in North India.

U.K., EU reach post-Brexit trade agreement

Just a week before the deadline, Britain and the European Union struck a free-trade deal on December 24 that should avert economic chaos on New Year's and bring a measure of certainty for businesses after years of Brexit turmoil. Once ratified by both sides, the agreement will ensure Britain and the 27-nation bloc can continue to trade in goods without tariffs or quotas after the U.K. breaks fully free of the EU on January 1.

Relief was palpable on both sides that nine months of tense and often testy negotiations had finally produced a positive result. The Christmas Eve breakthrough was doubly welcome amid a coronavirus pandemic that has left some 70,000 people in Britain dead and led the country's neighbors to shut its borders to the U.K. over a new and seemingly more contagious variant of the virus spreading in England.

It has been four-and-a-half years since Britons voted 52% to 48% to leave the EU and – in the words of the Brexiters' campaign slogan – "take back control" of the U.K.'s borders and laws. It took more than three years of wrangling before Britain left the bloc's political structures in January 2019. Disentangling the two sides' economies and reconciling Britain's desire for independence with the EU's aim of preserving its unity took months longer. On Jan. 1, the breakup will start feeling real.

The new year will bring huge changes, even with a trade deal. No longer will goods and people be able to move freely between the U.K. and its continental neighbors without border restrictions. EU nationals will no longer be able to live and work in Britain without visas – though that does not apply to the more than 3 million already doing so – and Britons can no longer automatically work or retire in EU nations. Exporters and importers face customs declarations, goods check and other obstacles.

The U.K.-EU border is already reeling from new restrictions placed on travelers from Britain into France and other European countries due to a new coronavirus variant sweeping through London and southern England. Thousands of trucks were stuck in traffic jams near Dover on Wednesday, waiting for their drivers to get virus tests so they could enter the Eurotunnel to France.

J&K DDC poll result: PAGD wins 110 seats, BJP 75; counting deferred in 2 seats as candidates belong to PoK

The People's Alliance for Gupkar Declaration (PAGD), led by Farooq Abdullah, won 110 seats of the total 280 constituencies in the maiden District Development Council (DDC) elections. The Bharatiya Janata Party (BJP) emerged as the single largest party with 75 DDC constituencies followed by J&K National Conference with 67 seats. The PDP bagged 27 while the Congress won 26 seats. The newly formed J&K Apni Party (JKAP) won 12 while JKPC and CPI-M bagged eight and five seats respectively. Independents turned out to be key players during these elections, winning 18 percent of the total seats while registering their win on 50 seats. Likewise, JKNP and PDF managed to win two seats each and BSP emerged victorious on one seat from Kathua district.

The results of 278 seats have been declared. The counting of votes in two DDC constituencies has been kept in abeyance as two of the candidates in them are from Pakistan-occupied Kashmir (PoK). "The counting of votes was deferred in Drugmulla constituency (Kupwara district) and Hajin-A (Bandipora) in view of a question that has arisen on eligibility of one each contesting candidates from the two seats," said Jammu and Kashmir State Election Commissioner KK Sharma.

The counting of votes for the 280 DDC constituencies -- 14 each in 20 districts -- started on Tuesday morning.

Israel heads to new elections as government collapses

Israel's divided government collapsed early on Wednesday, triggering the country's fourth election in under two years and bringing an unprecedented threat to Prime Minister Benjamin Netanyahu's lengthy grip on power. Mr. Netanyahu, who is used to labeling his opponents as weak leftists, finds himself confronted by a trio of disgruntled former aides who share his hardline ideology, led by a popular lawmaker who recently broke away from the prime ministers Likud party. All of these rivalries are more personal than ideological, meaning that Israel's next government – led by Netanyahu or not – almost certainly will have a right-wing ideology that opposes Palestinian independence and supports continued Israeli settlement construction in the occupied West Bank. The recent polls indicate that Gantz, who appealed to left-wing voters in previous elections, may not receive enough votes to even enter the next Knesset.

Several Indian-American physicians publicly take COVID-19 vaccine, encourage others to get it

Several Indian-American physicians, in the frontline of the fight against the pandemic, are publicly taking the coronavirus vaccine and encouraging others to get the shots, emphasizing that the vaccine is the "only saving grace" and a "scientific blessing" that will help the world win the battle against COVID-19. The U.S. began administering vaccines a week ago and has approved jabs developed by Pfizer-BioNTech and Moderna. "We all should take the vaccine. It is very effective and we are seeing good results. The vaccine is the only saving grace we have right now and we have to take it," former President of the American Association of Physicians of Indian Origin (AAP) Dr. Suresh Reddy told PTL. The COVID-19 pandemic "is a war-like situation and we don't have that kind of luxury to do our routine exercises. I'm very confident that this vaccine is very effective and it is a lifesaver," he said. The global COVID-19 tally stands at 17,73,43,652 cases with 17,02,293 deaths. The U.S. has the world's highest absolute number of cases as well as the most deaths related to the virus. The country surpassed 18 million reported COVID-19 cases on Monday, figures from Johns Hopkins University showed. Dr. Jayesh Shah, wound care and hyperbaric physician based in Texas, also received the Pfizer vaccine publicly. He said a majority of people need to take the vaccine as that is the only way to beat COVID-19. He added that if about 70% of the population takes the vaccine, that will help create herd immunity. "The vaccine is indeed a scientific blessing," Mr. Shah, member of Board of Trustees of Texas Medical Association and President of South Texas Wound Associates, said. "Science says we can beat the disease by using face masks, maintaining social-distancing and regular hand-washing. These are the three basic principles that everybody needs to follow whether you get the vaccine or not. This needs to continue till we get the herd immunity," Mr. Shah, past president of AAP, said.

Trump vetoes defence bill, setting up possible override vote



U.S. President Donald Trump on Wednesday vetoed the annual defence policy bill, following through on threats to veto a measure that has broad bipartisan support in Congress and potentially setting up the first override vote of his presidency. The bill affirms 3% pay raises for U.S. troops and authorises more than \$740 billion in military programmes and construction. Mr. Trump has offered a series of rationales for vetoing the bill. He has called for lawmakers to include limits on social media companies he claimed are biased against him. He has called for stripping out language that allows for the renaming of military bases such as Fort Benning and Fort Hood that honour Confederate leaders. Without going into detail, he has claimed the biggest winner from the defence bill would be China. Both the House and Senate passed the measure by margins large enough to override a veto from the president. Mr. Trump had vetoed eight bills previously, but those vetoes were sustained because supporters did not get the two-thirds vote needed in each chamber for the bill to become law without Mr. Trump's signature. In advance of the veto, Senate Majority Leader Mitch McConnell, R-Ky., has said the bill would help deter Chinese aggression. Other GOP backers of the measure, including Sen. John Thune of South Dakota, the second-ranking Senate leader, and Rep. Mike Gallagher of Wisconsin, a member of the House Armed Services Committee, have tweeted that the bill would counter threats from countries such as China. Sen. Jack Reed of Rhode Island, the top Democrat on the Senate Armed Services Committee, said Mr. Trump's declaration that China was the biggest winner in the defence bill was false. Reed also noted the shifting explanations Trump had given for the veto. "President Trump clearly hasn't read the bill, nor does he understand what's in it," Mr. Reed said. "There are several bipartisan provisions in here that get tougher on China than the Trump Administration has ever been." The measure guides Pentagon policy and cements decisions about troop levels, new weapons systems and military readiness, military personnel policy and other military goals. Many programs can only go into effect if the bill is approved, including military construction.

Women's cricket to be a part of Commonwealth Games 2022 for the first time, ICC confirms



The International Cricket Council (ICC), on Wednesday, confirmed that Women's cricket will be a part of the Commonwealth Games in 2022 for the first time in history. The ICC and the Commonwealth Games Federation (CGF), on November 18, announced the qualification process of the 8 teams in the event that will take place in Birmingham from July 28 to August 8 in 2022. While this will be the first appearance of Women's cricket in the Commonwealth games, it will be the 2nd appearance of the sport after a men's competition was part of the multi-sport event in Kuala Lumpur in the year 1998. The qualification process is as such that the top 6 teams, ICC Women's T20I Team Rankings as of 1 April 2021, and host team England will automatically qualify for the Commonwealth games. The remaining spot, the 8th spot, will be earned by the winner of a Qualifier, based on an undecided format, which will be played within the 31 January 2022 – the deadline in place. Moreover, a Caribbean nation and not necessarily the ICC-affiliated West Indies will take part in the Commonwealth games. If the West Indies end up in the top 6 teams, there will be a separate qualifying competition that will decide which Caribbean nation goes ahead and represents them in Birmingham.

Donald Trump refuses to sign COVID-19 relief bill, seeks \$2,000 stimulus payment

U.S. President Donald Trump has refused to sign the COVID-19 relief bill, saying the \$600 stimulus payment to most Americans was not enough as he asked Congress to increase the amount to \$2,000. Mr. Trump, in a video posted on Twitter on December 22 night, said that the bill delivered too much money to foreign countries, but not enough to Americans. "A few months ago, Congress started negotiations on a new package to get urgently needed help to the American people. It's taken forever. However, the bill they are now planning to send back to my desk is much different than anticipated. It really is a disgrace," he said. Treasury Secretary Steven Mnuchin was part of the negotiations. "Despite all of this wasteful spending and much more, the \$900 billion package provides hardworking taxpayers with only \$600 each in relief payments, and not enough money is given to small businesses and in particular restaurants whose owners have suffered so grievously," said the President in his video. "I am asking Congress to amend this bill and increase the ridiculously low \$600 dollars to \$2,000, or \$4,000 for a couple," he said.

India, Bangladesh sign seven agreements, revive railway link

India and Bangladesh signed seven agreements in areas ranging from hydrocarbons to agriculture and revived a cross-border railway line that was snapped 55 years ago at a virtual summit on December 17, giving a boost to connectivity initiatives and energy cooperation.

Prime Minister Narendra Modi, in his opening remarks at the summit with his counterpart Sheikh Hasina, described Bangladesh as an important pillar of India's "neighbourhood first" policy. Both countries, Hasina said, could move up global and regional value chains by further integrating their economies, and connectivity initiatives such as the revival of the Chilahati-Haldi Bari rail link will be catalysts for this process. Hasina used the summit to raise the sharing of Teesta waters and repatriation of Rohingya refugees to Myanmar – two issues on which Dhaka has repeatedly sought greater cooperation from New Delhi. The seven agreements signed on December 17 cover cooperation in the hydrocarbons sector, agriculture and textiles, high impact community development projects to be carried out by India, trans-border elephant conservation, supply of equipment for improving garbage disposal in Bangladesh's Barishal city, and creation of a CEOs Forum. The agreement on hydrocarbons will help streamline investments, technology transfers and joint studies and promote hydrocarbon connectivity. The two countries agreed to strengthen sub-regional energy cooperation, especially with Nepal and Bhutan, and speed up work on the 130-km India-Bangladesh Friendship Pipeline. Both leaders directed officials to speedily conclude a joint study on a bilateral comprehensive economic partnership agreement.

Watchdog highlights shortcomings in EU rules to curb tech companies

A watchdog has criticized the EU's new rules that aim to curb the power of Alphabet unit Google, Facebook, Apple and Amazon, potentially providing scope for companies that are targeted to challenge them. The Regulatory Scrutiny Board, which reviews policies and legislation proposed by the European Commission, eventually gave its green light to the draft rules, but also said they did not clarify how online gatekeepers are singled out. The European Commission's draft rules, announced last week, are its most serious attempt yet to rein in tech companies, relied on by thousands of companies and millions of Europeans. The rules include potential fines up to 10% of annual turnover and break-up. "The report should better justify the identification and selection of the core platform services. It should present evidence of what determines persistent misuse of gatekeepers' power vis-a-vis dependent business users and customers," the board said in an opinion seen by Reuters.

Government calls on startups to scale up vaccine portal, winner to get ₹40 lakh

The Ministry of Health and Family Welfare along with the Ministry of Electronics and Information Technology has launched a challenge for startups and technology enthusiasts to scale up the COVID Vaccine Intelligence Network (CoWIN) portal. Participants can focus on seven areas including vaccine's portability and queue management. The top two contestants will get 40 lakh and 20 lakh respectively.

New population of blue whales found in Indian Ocean: Researchers



Researchers have discovered a new population of blue whales in the western Indian Ocean. Every blue whale population sings a unique song and researchers described a new blue whale song heard from the Arabian Sea coast of Oman across to the Chagos Archipelago. Dr Salvatore Cerchio, Visiting Scientist at the New England Aquarium, first recorded the novel song in 2017.

Jupiter and Saturn come closest in night sky after 397 years, pics go viral

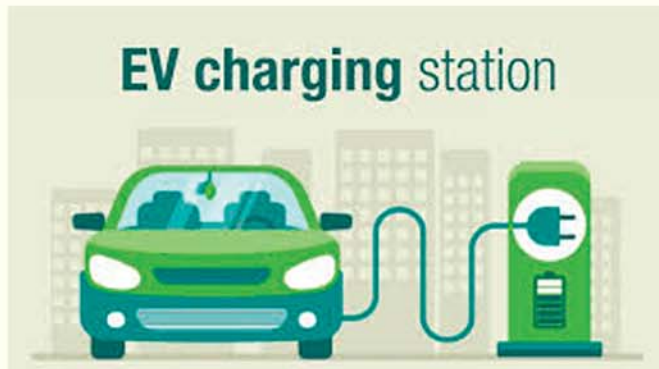


Jupiter and Saturn came closer than any time in 397 years on Monday night in the event dubbed 'Great Conjunction'. The two planets were at their closest separation at 0.1° apart. The event was visible with the unaided eye as well. The pictures above include the event as seen from New Delhi, Las Vegas and New York among others.

Dinosaur fossil found in Brazil reveals new chicken-sized species

Palaeontologists have discovered a chicken-sized dinosaur species with a mane of hair down its back and stiff ribbon-like structures projecting from its shoulders. The dinosaur, *Ubirajara jubatus*, is believed to have lived around 110 million years ago in north eastern Brazil. "There are...strange dinosaurs, but this one is unlike any of them," said David Martill, who helped lead the study.

100 EV battery swapping-stations to be setup in Bengaluru



As many as 100 electric vehicle (EV) battery-swapping stations will be set up in Bengaluru as part of a joint initiative by Karnataka government and private firms. "With the government encouraging the use of EVs, these battery-swapping units...will...help reduce the weight of vehicles, increase mileage, and make it possible to drive for longer hours," CM BS Yediyurappa said.

Good idea: Musk on combining SpaceX, Tesla, Boring Company and Neuralink

Elon Musk said that combining SpaceX, Tesla, The Boring Company and Neuralink to form a holding company called 'X' would be a "good idea". His reply came in response to YouTuber Dave Lee, who suggested bringing all ventures under one structure to make it easier to manage them. "X's mission [will be] to ensure human survival and progress," Lee said.

Apple's self-driving car poses a real challenge: Volkswagen CEO

On reports of Apple launching its self-driving car by 2024, Volkswagen CEO Herbert Diess said, it poses "a real challenge—dimensions greater than those within our industry" such as Toyota. "The incredible evaluation and thus the virtually unlimited access to resources inspire us a great deal of respect," Diess said. "We are looking forward to new competitors," he further added.

Musk reveals he tried selling Tesla to Apple but Tim Cook refused a meeting

Tesla CEO Elon Musk revealed that he once approached Apple CEO Tim Cook to discuss the possibility of the iPhone maker acquiring Tesla for a tenth of its current value, indicating a valuation of about \$60 billion. "He refused to take the meeting," he added. Musk said he had contacted Cook during the "darkest days" of development of Model 3.

Trump's cyberattack claims not serious and self-contradictory: China

Chinese foreign ministry's spokesperson Wang Wenbin on Monday said that US President Donald Trump's tweets alleging Chinese involvement in the SolarWinds cyberattack were "not serious and self-contradictory". "The accusations made by the US against China have always been a farce, out of political motives," he added. US Secretary of State Mike Pompeo earlier said Russia was behind the attacks.

2020 U.S. Presidential election: Another mess

The 2020 U.S. Presidential elections are done but not over yet. The 2020 election field was a battle between the Republicans vs the democrats, conservatives vs liberals, Trump-Pence vs Biden-Harris.

Mr. Biden was elected as the 46th President of the United States following the election that took place on 3rd November 2020, thus bringing an end to the lengthy election process. The final results of the presidential election weren't out until late November. Mr. Biden took the lead in early aughts which he maintained till the end, thus winning the election. Democrats won a total of 306 of the 538 seats (270 was the magic number required for majority in the house) Republicans taking the back seat with 232 seats, the house is now under the democrat control, whereas republican party takes the front seat in the senate.



Senator Harris would be the first woman to hold a key presidential position as the new Vice President elect of the United States, also making her the first person of African American and Indian descent to hold this position. Among key states, Biden flipped Arizona, Michigan, Georgia, Wisconsin and Pennsylvania retaining Nevada, whereas Trump retained Florida, North Carolina and Ohio. The election this year was a long and complicated process, the ongoing coronavirus pandemic made it complicated to cast votes via ballots, many states opted in for mail in voting. All 50 states and the District of Columbia have now certified their presidential results, according to CNN's tally, as the Electoral College process moves forward with the meeting of electors on Monday. West Virginia became the final state to certify its presidential election results Wednesday, formally declaring that President Donald Trump is entitled to the state's five electoral votes. The states' certifications come as Trump has baselessly claimed that the election was rigged and sowed doubt about the outcome of the presidential race. Dozens of lawsuits challenging the results have been dismissed at the state and federal levels across the country since the November election. Each state has different processes for certifying results, and some states certified their slate of presidential electors separately from state and local election results. The next major step in the Electoral College process is the meeting of the electors, who are required by law to convene on the first Monday after the second Wednesday in December, which this year is December 14. The electors' votes are later transmitted to officials and counted in a joint session of Congress on January 6.

In the month since the election, President Donald Trump has grasped for seemingly any theory to explain why he lost to Joe Biden, no matter how outlandish – dead people voted, poll watchers were illegally removed, foreign countries influenced the tabulation of the votes! Yet as his explanations have changed, they remain consistently untrue. Over the course of the four weeks following the election, Trump sent around 500 tweets, 171 of which were flagged by Twitter for containing false or misleading information about the election. Despite repeated denials of any wrongdoing from federal and state officials, there's evidence Trump's onslaught is having an effect. A recent Pew survey found only 35% of Trump voters say they are "very confident" their vote was counted accurately, much lower than the 82% of Biden voters.

Trump had help from an array of allies in his efforts to discredit the election results – Rudy Giuliani has helmed a legal team that's consistently peddled baseless nonsense, and consistently lost in court. Most Republicans remain silent though some prominent ones have actively helped spread misinformation. Votes reported after midnight on Election Day were one of the earliest narratives Trump and his campaign pushed as proof of fraud in the election. Initially, this was framed as votes from mail-in ballots which were "illegally" received after Election Day, but eventually Trump and his allies began characterizing them as "dumps" of votes that were suspicious because the results were tallied and reported after the election. Votes from mail-in ballots, the majority of which favored Democrats, were often reported later on Election Day and afterwards because they couldn't be counted ahead of time in many states, including Michigan and Pennsylvania. Additionally, it's possible Trump himself is partially to blame for the large amount of mail-in votes going to Biden since he spent most of the year claiming the practice was unsafe and ripe for fraud.

Mr. Biden Mrs. Harris will take oath as the President and Vice President of the United States begin their term on January 20, 2021.

Aditya Singh
Editor, PSMSC



Akanksha Singh Tomar 1st CHE



Aanya Tyagi 3rd FT



Ankit Singh 2nd CE

Divine Aura Heals You

When Soul go Hollow,
And Darkness begins to follow.

When Night begins to fall,
And Knights begin to crawl.

When Stars don't reveal the life,
And Scars don't heal the vibe.

Then seek for the hope,
Tie pessimism with ropes of hope,
And merge connections of life with tide
of
cosmic ride.

When Reactions go instant,
And mindset go constant,

When wisdom radiates sapphire,
And nature changes it's attire.

When seasons remain unchanged,
And déjàvù doesn't sound strange.

Then open your arms wide enough,
Let the warmth of glory approach in,
Strike your aims on the right side,
Let the realities dwell in.
Allow the holy synchronisation heal you,
And allow your aura to feel you.

Move slowly with patience,
Just trust the divine process and
overcome suffocation.

Parthsarathi 1st FT



Pragya Bharti 2nd CHE

आसुओं का बोझ हर कोई उठा पाता नहीं,
आदमी इंसानियत अकसर दिखा पाता नहीं।
जाति धर्मों के मुखौटों में छुपा दी असलियत,
ये ज़माना न्याय पीड़ित को दिला पाता नहीं।
पूजता है शक्ति को दिन रात नारी रूप में,
आबरू नारी की फिर भी क्यों बचा पाता नहीं।
कष्ट होता है प्रशासन का रवैया देख कर,
ये जलाकर लाश अंधेरा मिटा पाता नहीं!
राष्ट्र बनकर हम रहेंगे वो दिवस भी आयेगा,
रात अंधेरी हो तो क्या सूर्य आ पाता नहीं?

-Ritesh Singh

Ritesh Singh 2nd ET

बस यही नारी होती है

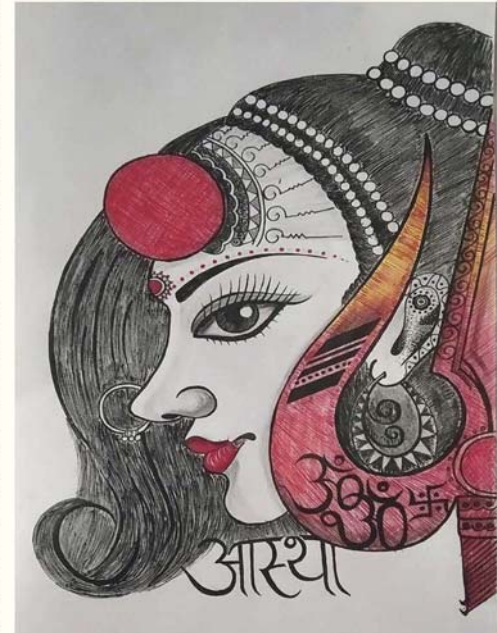
अगर ये जहां एक एहसासों का उपवन है,
तो जो इसे अपनी खुशबू से मेहकाती है,
बस यही नारी होती है;
बस यही नारी होती है।
अपना क्यों अपमान समझती है दुनिया,
जब कभी वो आवाज़ उठाती है,
अरे! वो तो उसका स्वाभिमान होता है,
जो दूसरों के लिए जीते जाती है,
कभी खुद के लिए मिट जाती है,
बस यही नारी होती है;
बस यही नारी होती है।
एक ज्योति होती है वो,
जो जहां को रोशन करती है,
बुझाने की चाहत क्यों रखते हो उसे
जो ज़रूरत पड़ने पर,
ज्वाला बनने की शक्ति भी रखती है,
बस यही नारी होती है;
बस यही नारी होती है।
जो आदर के लिए सबसे लड़ जाए,
और सिर्फ आदर के बदले, सब कुछ कर जाए,
बस यही नारी होती है;
बस यही नारी होती है।

Unnati Kumari**1st Btech Computer Science Engineering****Srijan Tiwari****1st Btech Chemical Engineering****Ishita Gupta****1st Btech Computer Science Engineering****एक आवारा शाम**

आज की शाम बहुत दिनों में आयी है, नहीं आज मेरा
जन्मदिन या कोई त्योहार नहीं है, बस एक शाम जो कुछ
अलग सी है
अनंत आकाश में फैली है सूरज की किरणें,
बादलों को सुनहरे रंग में रंगते हुए, धरती को छूकर विलीन
हो रही हैं
मैली हवा आज नहा धो कर आई है, अपने रोज़ वाले शांत
स्वभाव से विपरीत, आज खुद में मग्न होकर क्रीड़ा
कर रही है
कहीं गिरली पतंग को संभाल रही है तो, कहीं सोए हुए पेड़ों
की पत्तियों को हिलाकर अपने साथ खेलने के लिए
मना रही है
मशीन की ठक-ठक की जगह,
चिड़ियों की चहचहाहट सुनाई दे रही है,
लगता है दौड़ती हुई ज़िन्दगी,
आज आराम कर रही है
अरे सूरज डूब रहा है,
धीरे धीरे अंधेरा हो रहा है,
हवा भी थम सी गई है,
उड़ती हुई पतंगें वापस आ गई हैं,
देखो छोड़ गई मेरे कविमन को फिर एक ऐसी किसी शाम
के इंतजार में...

Harsh Pratap Singh**1st Btech Electronics Engineering****THE HIDDEN KID**

Have you ever tried to listen your heartbeats
Or you are the slave of your mind only!
Listen..
If you haven't ; Just do it once
Thereafter you will discover a kid in yourself
Who still want to..
Ride as far as possible
Have a home made up of chocolates
Talk with her toys
Steel mangoes from others orchard
Build an empire of wizards and fairies
Make all day a "Holiday"
Make infinite friend with whom she can play with
Have all the gadgets of Doremon
Want to show her new clothes to everyone she
knows
To switch on the torch for no reason
To admit in her new class so that old notebooks
convert into an aeroplane
And after doing all this
Just come back to mamma's lap!!

Anshika Tripathi**1st Btech Electrical Engineering****Aastha Chauhan****1st Btech Mechanical Engineering**

HOW CAN DATA MINING HELP IN THE GROWTH OF BUSINESS?

Know Why Data Matters.

Data facilitates advancement and arouses a sense of alteration. To be well-acquainted with the fact of where we stand now, we must be certain of our achievements and also of the prior challenges that still remain untouched. Precise data reading with good results push analysts to replicate those successes at large scale. Data is collected for the prime purpose of analysis of trends to predict success rate, by estimating the strongest solutions as and when needed. Often, when you search for, say, the price of your favourite camera on Chrome, sooner, when you switch to Instagram or YouTube, you certainly get an ad or a suggestion likewise. Or you browse an online course on Udemy, you are sure to see ads popping up, related to the same online course from any other website, for instance, Unacademy or Coursera, on any other app you browse next. That is the real power of data. From health care to education, from weather forecast to retail - data is ubiquitous.

A Brief Introduction to Data Mining

Data mining, in lucid words, is a technique to come across fruitful data patterns in extensive datasets. These patterns provide huge organizations to make crucial decisions and strategies. Often, Knowledge Discovery in Databases (KDD) is alternatively used for data mining. It is an approach to help organizations know its customers well, which in turn, increases sales and drops down costs.

Data mining is, doubtlessly, technology-extensive. It implicates a number of technologies, few of which are discussed below:

Database Management - Data is voluminously distributed across the Internet and machines in organizations. Ease of handling large and discordant data for the purpose of analysis is nothing but database management.

Artificial Intelligence - AI is an upsurging technology that mimics humans. It performs every task at par with a human, be it billing at counters, analyzing procedures etc.

Machine Learning - Given today's tech-savvy generation, intelligent machines ain't a luxury but a necessity. ML comprises machines to act upon data, making quick and precise decisions.

Data Visualization - It is a graphical approach to understand and analyse patterns, trends and outliers in data in an efficient manner, via graphs, maps and charts.

Pattern Recognition - It is an automated recognition of regularities in data, finding applications in statistical data analysis, image analysis, signal processing, machine learning, computer graphics etc.

Key Features Of Data Mining

Automatic Discovery Of Patterns - This is accomplished via building models that act upon data to make predictions. They not only mine data on which they are built but also aid in generalizing trends on new data.

Prediction Of Likely Outcomes - For instance, predicting income of a set of people depending on their education, demographic location etc.

Creation Of Actionable Information - For instance, a town planner might devise a model that predicts income on the basis of demographics to generate a plan for low-income housing. Likewise, a car leasing agency might adopt a model that determines customer segments to design a promotion targeting high-value customers.

Focus On Large Datasets And Databases - small sets of data can be handled manually and predictions tend to be quick and error free. But when it comes to vast data values, models are required explicitly for handling such data and thereby, performing designated tasks.

Sources Of Data That Can Be Mined

Nowadays, data you store on your smartphones, say, in Google Drive or iCloud, can be smoothly fetched by data analysts. An imminent example of learning from experience after an enormous amount of data collection is Alexa. It was initially fed with data in multiple languages, each derived from varied sources, namely:

Files hold data in text form or binary form with a structure that can be easily extracted by data mining algorithms.

Relational Databases are defined as collections of data organized in tables in the form of rows and columns.

Transactional Databases are collections of data organized by time stamps, date, etc. to represent transactions in databases.

Multimedia Databases comprise audio, video, images and text media.

Spatial Databases store geographical information.

Time-Series Databases accommodate stock exchange data and user logged activities.

Data Mining Process

The process of data mining is iterative in nature. The process flow illustrates that a data mining project does not halt when a particular solution is ready for dispatch. The outcome of data mining triggers new business queries, which in turn, can be used to establish more fixated models. Its steps comprise:

Problem Definition - The initial phase encompasses understanding of the problem, which, in turn, includes its objectives and requirements. Better than referring to as "how can I sell more of my products to my customers?", the problem can be phrased in a more apt manner such as "which customers are more likely to buy the product?". Besides penning down the information of people who purchased the product and those who did not, one could perhaps include parameters such as age, number of children, owners/renters etc.

Data Gathering And Preparation - On taking a closer look at the data, one might roll out a few of the unnecessary features from the dataset or also might tag along a few additional ones. Furthermore, data now requires to be cleansed and transformed. For instance, you might wish to alter a pre-existing column "Date of Birth" by "Age", or you might allot an average salary to those whose "Income" turns out to be null.

Model Building And Evaluation - This phase comprises selection and application of various modeling techniques and calibrating the parameters to optimal values. Initially, it is advisable to work on a smaller dataset to reduce error and enhance precision, as the final case set tends to include a million of test cases.

Knowledge Deployment - It involves application of tried and tested models on new dataset, extraction of model details, query and reporting tools etc. To make a product easily understandable to our customers, information should be well presented to them, so that they can use it to their best.

Areas Of Implementation Of Data Mining

Sales - Consider, you look for a mobile phone at Flipkart. As soon as you switch to YouTube or Instagram, you see an ad pop up suggesting you, based on your searches at Flipkart, to buy a similar phone with better customer review and at lower price. All in all, sales management is all about acquiring and retaining customers, also winning over customers' loyalty and implementing customer-targeted strategies. With data mining techniques, collected data can be used for analysis, which brings into focus ways to retain customers.



Furthermore, an apt way to convert data into dollars is by using Market Basket Analysis technique, as employed by Amazon, where its recommendation engine mines data from user history, purchased and abandoned carts, wish lists, referral sites, etc. to focus on customers with product advertisements they're most likely to click on and convert, thus driving sales.

Marketing - Data mining is extensively used to explore large databases and to improve the marketing segmentation. It even helps in predicting if the user is willing to unsubscribe for a service or what captivates them, based on the parameters of age, gender, searches etc.

Retail - At supermarkets, employees use purchasing patterns to devise how to place items in the aisles or which offers are most likely to attract customers etc.

Banking - Data mining is implemented in banking systems to have a thorough knowledge of market risks, commonly applied to credit ratings and anti-fraud systems, and our online preferences and habits, to analyze transactions, purchasing patterns and customer financial data.

Television And Radio - By collecting anonymous information from channel views, broadcasts etc., data mining permits networks to make strong recommendations to radio listeners or TV viewers. Furthermore, it helps in retrieval of trivial information such as interests and activities of users, which further helps in better understanding of their behavior.

Medicine - It promotes accurate diagnosis. Collection of each patient's record including, medical records, physical examinations, treatment patterns, nurtures prescription of more efficient treatment. It also enables cost-effective management of health resources by identifying risks, predicting illnesses in certain segments of the population or anticipating the length of hospital admission.

How Data Mining Works With Statistics For Knowledge Extraction?

1. Descriptive Statistics: It is occasionally enforced to inspect as to which datasets should be selected for meaningful analysis and decision making. For instance, to promote sales, one can quickly determine offices projecting low average sales to analyze the embedded cause for poor sales.

2. Correlation Analysis: Data mining comprises minute analysis of large datasets. Given a business context, correlation analysis can be applied to select only those variables that are relevant in that context.

3. Hypothesis testing: It is used to contrast different statistical attributes, like average and spread, to see if two large datasets are concordant or not. Consider the rating of your product against that of a market leader in your industry. Although your product and the market leader's may have a similar average rating, hypothesis testing could propagate that the spread of feedback ratings for your product is larger.

4. Linear and Multiple Regression: In comparatively large datasets that one might encounter, a high number of potential causes can be daunting. Linear regression is used to detach only those causes which tremendously influence an outcome. For example, how does delivery time alter customer satisfaction, although the brand would then be a relevant, yet insignificant variable. Multiple regression is closer to real-life situations than linear regression, because here, you can analyze how several causes affect one output. For instance, how both delivery time and product price affect customer satisfaction.

How Business Value Is Derived From Data Mining?

In the upsurging tech-savvy scenario, data search, analysis and management are markets with humongous employment opportunities. Data mining professionals work with databases to compute information and discard any information that is not fruitful or reliable. This employs expertise in big data, computing and information analysis, and the ability to handle varied types of software. LinkedIn's 2017 annual report on emerging jobs mentioned that three of the most in-demand jobs in the United States were positions related to big data. Similarly, IBM forecasted that the requirement for data mining professionals will flourish by 28%, 2020 onwards.

The value data mining augments to businesses includes:

- Improved customer relationship management
- Optimization of marketing campaigns
- Helpful in staying ahead of competition
- Detection of plausible frauds
- Making better business decisions
- Forecasting market trends
- Anomaly detection with more precise analysis
- Getting an insight into employees and HR policies

Data mining has till now proven to be a powerful tool aiding business in all sectors, be it entertainment, marketing, sales, healthcare or education. It is never late to drag the left-out businesses into implementing data mining techniques for self-betterment, encapsulating prediction of both market trends and customer satisfaction. Thus, rightly said, "Better Late Than Sorry". In short, data mining is no less than an emerging trend ready to engulf every field, drawing every entrepreneur's focus towards data.

Nandita Saxena
II MCA