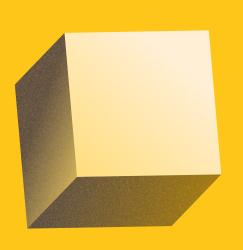
THE HINDU ANALYSIS

27th March 2024 by saurabh pandey







() small and marginal farmers facing the Lors of crop yield, which Is lossess curring the income loss to the farmers A CHILDRENGE

way ahead

- 1) development of genetically modified crops
- 11) focus on precision imigration and farming
- (11) incluion of farmers in prefasal bima yolana to cover their Crop Loss
- @ Winde and water resistant eng live millets should be promoted.
- @ nationalize me payment of crops arrived Munda - charge
- (i) work en climate change mitigation methods

Therefore we have to work on sustainable deduce fine impact of climate change on agriculture to susure food security, ragricultural Economy of ton valets

Telegram channels

For posting Answers - Saurabh pandey upsc

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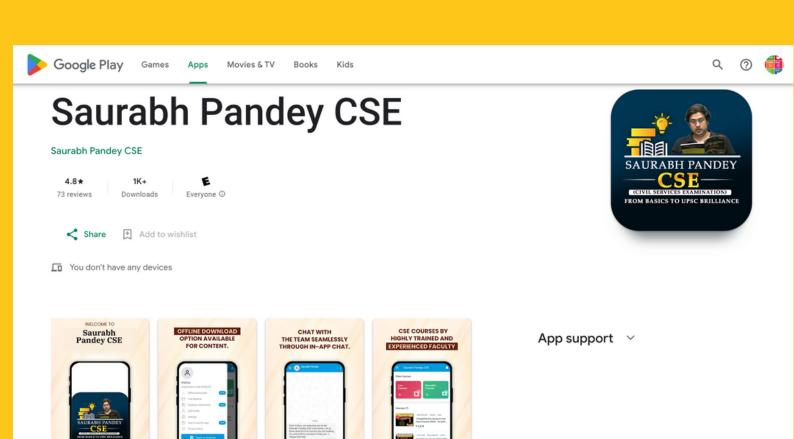
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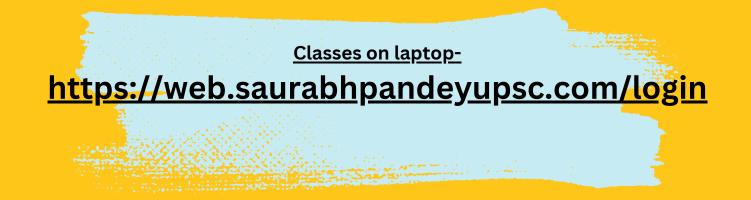
WAY FORWARD

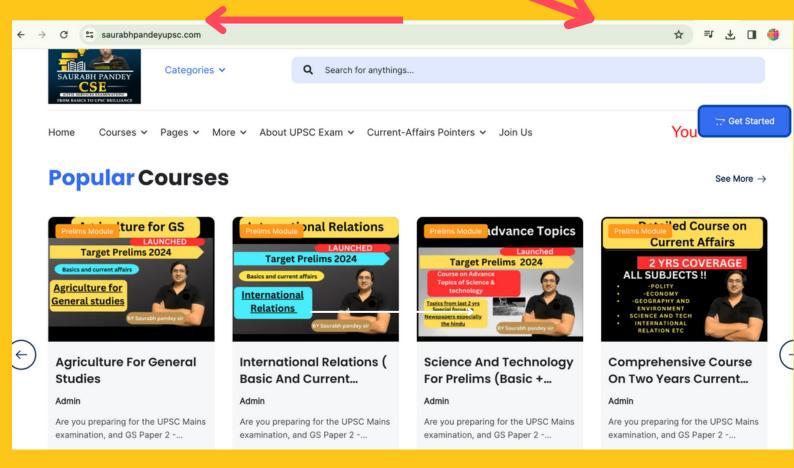
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Thus in this onthropocene era, water diplomacy has acted as a way forward & "water you peace" emphasises the consistent need of water diplomacy as a way jorward.



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Inaccessibility and cost cripple efforts to treat sickle cell disease

People from marginalised tribal communities, face a battle even to access basic healthcare and diagnostics. They also face an under-resourced health

hen five-year-old Suraj was debilitated with a persistent fever, his family hospital in Nuapada in western Odisha. The hospital directed them to the Veer Surendra Sai Institute of Medical Sciences and Research at Burka in Sambalpur, around 250km from their village. At the Institute, Suraj underwent a diagnostic test called haemoglobin electrophoresis to detect whether he had skide cell disease (SCID). When the tests confirmed SCID, the Institute registered him to Nuapada district hospital for blood transfissions. Suraj's story came up during our work with the National Human Right. Commission in 2019, it provides a glimpse of the difficulties that people like Suraj, from marginalised tribal communities, displanticed tribal communities. It is, however, the beginning of an arduous battle with an under-prosuced

diagnostics.
It is, however, the beginning of an arduous battle with an under resourced health system, inadequate information, and high expenditure.
In light of these realities, and the global discussion on advances in human genome editing, the question that become especially pertinent is whether these conversations allow for and are cognisant

conversations allow for and are cognisan of such experiences. SCD is an inherited haemoglobin disorder in which red blood cells (RBCs) become crescent or sickle-shaped due to a genetic mutation. These RBCs are rigid and impair circulation, often leading to a generic mutation. These RBCs are rigid and impair circulation, often leading to anaemia, organ damage, severe and episodic pain, and premature death. India has the third highest mumber of SCD births, after Nigeria and the Democratic Republic of the Congo. Regional studies suggest approximately 15,000 c5,000 babbes with SCD are born in India every year, mosty in tribal communities.

According to the 2023 'Guidelines for National Programme for Prevention and Management of Sickle Cell Disease', of the LI3 crore persons screened in different states, about 8.75% (1936 lakh) tested positive. It is also one of the 27 specified disabilities listed in the Schedule of the Rights of Persons with Disabilities Act 2016.

Access to treatment a major issue in 2023, the Government of India launched the National Sickle Cell Anaemia Elimination Mission, to eliminate SCD by 2047. At present, however, treatment and care for SCD remains grossly inadequate and inaccessible. States with a high prevalence of SCD, particularly among their most marginalised populations, are most marginalised populations, are most marginalised populations, and provide base care to tose oversion and provide base care to tose oversion and provide base care to tose oversion. An apposite example is the outnavailability of the drug hydroxyurea. It lessens the severity of pain, reduces hospitalisations, and improves survival rates by increasing the size and flexibility of RBCs and lowering their lifelihood of becoming sickle-shaped. Vet States are largely unable to provide hydroxyurea for SCD patients, pointing to their inability to purchase, stock, and distribute this drug. Event though the National Health Mission Is seemed and the drug Sevential Medicines List requires the drug Sevential Medicines List requires the drug

curchase, stock, and distribute this drug. Even though the National Health Mission's Essential Medicines List requires the drug to be availed at the primary beathcare level, hydroxyure a is currently only available in certain tertural-yeel facilities, such as medical colleges. Blood transfusion is another important therapy for SCD, but its availability is limited to district level facilities. Most block-level community health centres don't offer them. Even during an emergency, families of SCD patients have to arrange for blood replacement units and pay for expensive private transport. Pain medications, from painklines to non-steroidal anti-inflammatories and oppioids, are also scarce.

Bone marrow transplantation (BMT), until recently the other cure for SCD, is to the difficulty in finding matched donors, the high cost of the treatment at private facilities, and long waiting times in public hospitals. There have been efforts in some states to improve public health facilities but it remains to be seen how successful they are at making care universally available.

Access to and equity of CRISPR

Access to and equity of CRISPR In light of this, the application of the gene-editing technology called CRISPR (short for 'Clustered Regularly Interspaced Short Palindromic Repeats') to treat SCD is important - for its novelty and promise but also for the health



cell, left, and normal red blood cells of a patient set disparities it makes apparent. The U.S. Food and Drug Administration recently approved two gene therapies, Casgery and Lyfgeria, to treat SCD in people ages 12 and older. Casgery and Lyfgeria, to treat SCD in people ages 12 and older. Casgery and Lyfgeria, to treat SCD in people ages 12 and older. Casgery and Lyfgeria, to treat SCD in people ages 12 and older. Casgery and Lyfgeria the U.S. Lyfgeria, the U.S. Lyfgeria, the U.S. Lyfgeria, manufactured by Bluebird Bio, doesn't use CRESPR but depends on a viral vector to change blood stem-cells. Both treatments entail collecting a patient's blood stem-cells. Both treatments entail collecting a patient's blood stem-cells, modifying them, and administering high case chemotherapy to destroy the damaged through a benatopoleit stem cell transplant. The treatments are expected to take up to a year and require several bospital vistes. Victoria Gray, a patient in her mid-30s from the U.S., was the first recipient of Casgery in clinical trials. Having been free of SCD symptoms and pain for a few years, she is now seen as a symbol of hope for new therapies. CRESPR's inventors have mon A Nobel Priza and it is celebrared as a treatment cost of Sc3 a million keeps it out of neach of most of those affected in countries where SCD is endemic. While researchers and policymakers are considering potential alternatives to improve access in low- and middle-income countries, such high-tech therapies require advanced care in well-resourced hope the proper security of the principles of a malabelity, affordability, and quality – which or and middle-income countries, such high-tech therapies require advanced care in well-resourced hope the proper security of the principles of malabelity, affordability, and quality – which and manufalled income countries such light-tech therapies require advance

use of gene therapies.

CRISPR in India
In India, CRISPR's possible medical
applications also pose ethical and legal
quandaries. The Sational Guidelines for
Stem Cell Research 2017 prohibit the
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cene editing seem cells is allowed only for
in-vitro studies. The Guidelines also
encourage due don't mandate the
sharing of financial benefits resulting
from the commercialisation of stem cell
products with the donor or community.
Purther, the National Guidelines for
Gene Therapy Product Development and



Clinical Trials 2019 provide guidelines for the development and clinical trials of gene therapies for inherited genetic disorders. India has approved a five-year project to develop CRISPR for Sickle cell anaemia. Under its Sickle Cell Anaemia Mission, the Council of Scientific and Industrial Research is developing gene-editing therapies for SCD. Around E34 crore has been allocated for this to the pre-clinical stage, with clinical trials awaited.

However, the Guidelines need a

the pre-clinical stage, with cunscat trass-awaited.

However, the Guidelines need a stronger health inequity and discrimination perspective, addressing issues such as equitable opportunities for underserved populations to safely with such such as the proposition of the con-traction of the contraction of the con-traction of the con-traction

country's overall healthcare access framework. While such advances in curative treatments are encouraging, our concerns are primarily focused on the importance of equity and access, the concerns are primarily focused on the importance of equity and access, the development of the framework of the constituencies. The development of the rapeutic technologies occurs at a pace and level that renders it unavailable to the same constituencies most affected by the disease. The wait for the products of gene-editing to trickle down to the margins is long and often in vain. We suggest investment in expensive therapeutic technologies need to be margins is long and often in vain. We suggest investment in expensive therapeutic technologies need to be margins is long and often in vain. We suggest investment available—such as an accessive the suggest investment available—such as a considerable of the control of the control





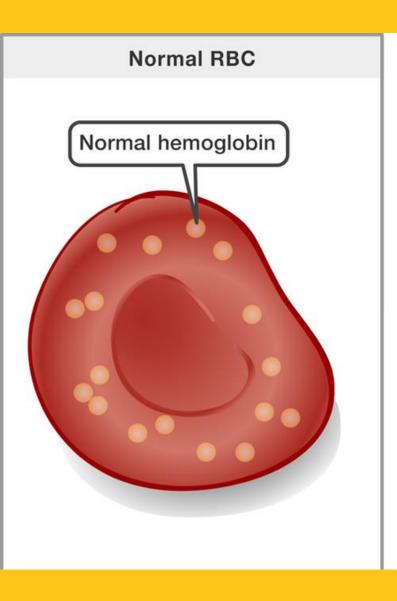


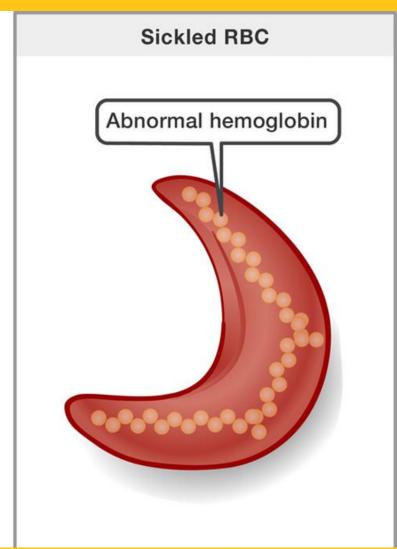


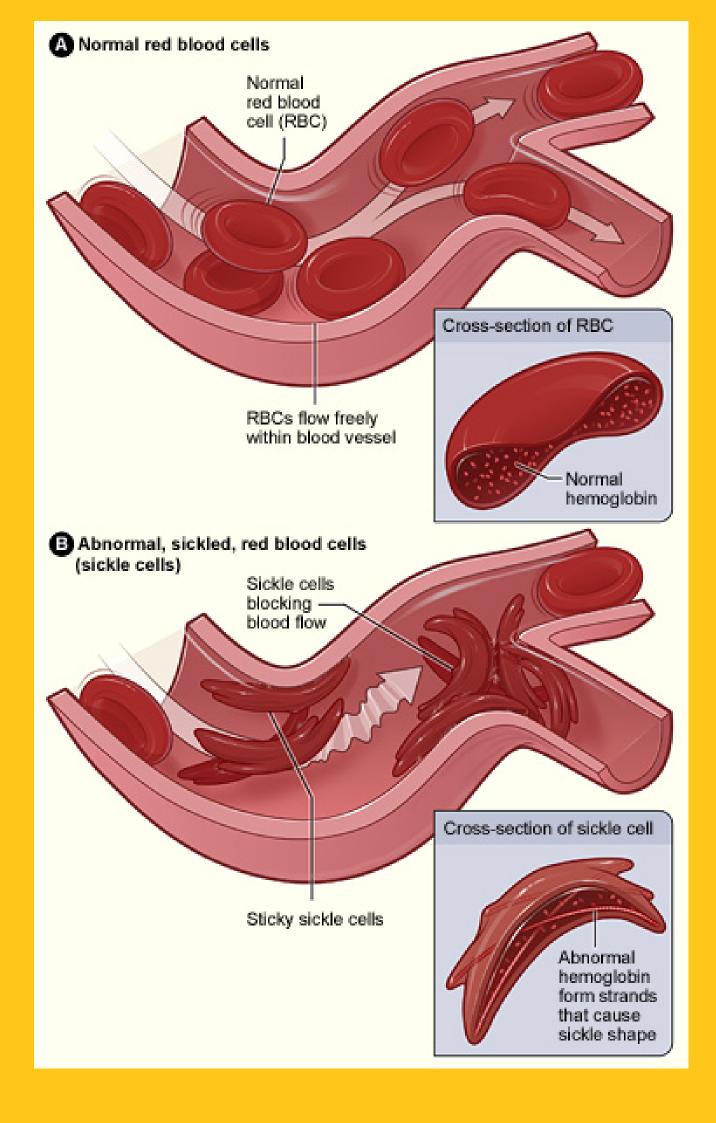
Sickle cell Anaemia

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- These RBCs are rigid and impair circulation, often leading to anaemia, organ damage, severe and episodic pain, and premature death.
- India has the third highest number of SCD births, after Nigeria and the Democratic Republic of the Congo.











- In 2023, the Government of India launched the National Sickle Cell Anaemia Elimination Mission, to eliminate SCD by 2047. At present, however, treatment and care for SCD remains grossly inadequate and inaccessible.
- States with a high prevalence of SCD, particularly among their most marginalised populations, are falling behind in their efforts to reach out and provide basic care to those affected.
- Blood transfusion is another important therapy for SCD, but its availability is limited to district-level facilities.





 Bone marrow transplantation (BMT), until recently the other cure for SCD, is out of reach for most SCD patients due to the difficulty in finding matched donors, the high cost of the treatment at private facilities, and long waiting times in public hospitals.

Access to and equity of CRISPR

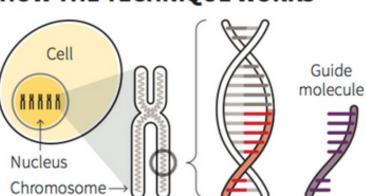
 In light of this, the application of the gene-editing technology called CRISPR (short for 'Clustered Regularly Interspaced Short Palindromic Repeats') to treat SCD is important — for its novelty and promise but also for the health disparities it makes apparent.



DNA editing

A DNA editing technique, called CRISPR/Cas9, works like a biological version of a word-processing programme's "find and replace" function.

HOW THE TECHNIQUE WORKS



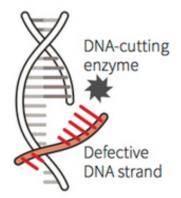
A cell is transfected with an enzyme complex containing:

Guide molecule

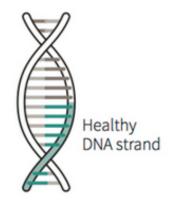
Healthy DNA copy

DNA-cutting enzyme

A specially designed synthetic guide molecule finds the target DNA strand.

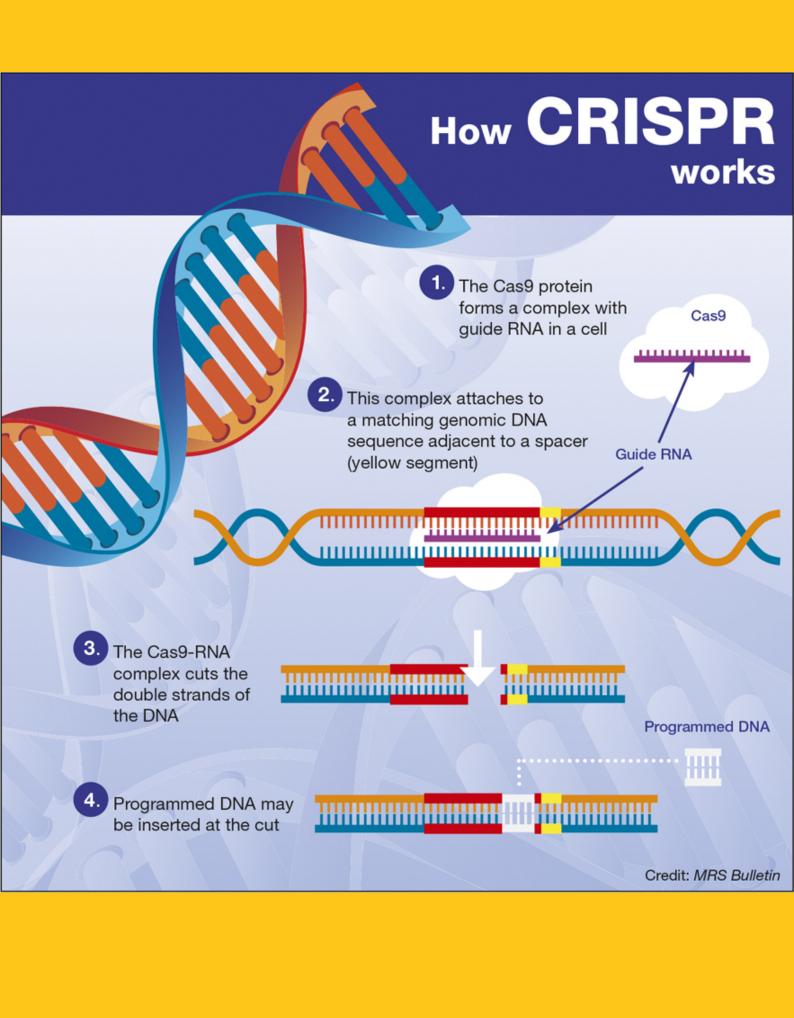


An enzyme cuts off the target DNA strand.



The defective DNA strand is replaced with a healthy copy.

Sources: Reuters; Nature; Massachusetts Institute of Technology





- The U.S. Food and Drug Administration recently approved two gene therapies, Casgevy and Lyfgenia, to treat SCD in people ages 12 and older.
- Casgevy, developed by Vertex
 Pharmaceuticals and CRISPR
 Therapeutics and also approved in the U.K., is the □first CRISPR-based therapy to have received regulatory approval in the U.S. Lyfgenia, manufactured by Bluebird Bio, doesn't use CRISPR but depends on a viral vector to change blood stem-cells.





- Both treatments entail collecting a patient's blood stem-cells, modifying them, and administering high-dose chemotherapy to destroy the damaged cells in the bone marrow.
- The modified cells are then infused into the patient through a hematopoietic stem cell transplant.
- The treatments are expected to take up to a year and require several hospital visits





Crispr and SCA in india

- In India, CRISPR's possible medical applications also pose ethical and legal quandaries.
- The National Guidelines for Stem Cell Research 2017 prohibit the commercialisation of stem cell therapies and allow the use of stem cells only for clinical trials, except for BMT for SCD. Geneediting stem cells is allowed only for in-vitro studies.
- The Guidelines also encourage (but don't mandate) the sharing of □nancial bene□ts resulting from the commercialisation of stem cell products with the donor or community.





- Further, the National Guidelines for Gene Therapy Product Development and Clinical Trials 2019 provide guidelines for the development and clinical trials of gene therapies for inherited genetic disorders.
- India has approved a □five-year project to develop CRISPR for sickle cell anaemia.
 Under its Sickle Cell Anaemia Mission, the Council of Scientific and Industrial Research is developing gene-editing therapies for SCD.





The need to curb black carbon emissions

What is black carbon and why is it harmful for the environment? Which sector in India is the biggest contributor of black carbon? How has the Pradhan Mantri Ujjwala Yojana helped in reducing the use of traditional cooking fuels?

EXPLAINER

The story so far: t the COP26 climate talks in Glasgow in November 2021, India pledged to achieve India pledged to achieve net-zero emissions by 2070, positioning listed is as frontrunner in the race to carbon neutrality. According to the Ministry of New and Renewable Energy, India had installed a renewable energy capacity of over 180 GW by 2023 and is expected to meet its target of 500 GW by 2030. While carbon dioxide mitigation strategies will yield benefits in the long term, they need to go hand-in-hand with efforts that provide short-term relief.

short-term relief.

Why is black carbon relevant?
Black carbon is the dark, sooty material
emitted alongside other pollutants when
biomass and fossif fuels are not fully
combusted. It contributes to global
warming and poses severe risks. Studies
have found a direct link between
exposure to black carbon and a higher
risk of heart disease, birth complications,
and premature death. Most black carbon
emissions in India arise from burning
biomass, such as cow dung or straw, in
traditional cookstoves.

According to a 2016 study, the
residential sector contributes 47% of
India's total black carbon emissions.
Industries contribute a further 22%,
diesel vehicles 17%, open burning 12%,
and other sources 2%. Decarbonisation
efforts in the industry and transport
sectors in the past decade have yielded
reductions in black carbon emissions, but
the residential sector remains a challenge.

Has PMLY helped?

Has PMUY helped? In May 2016, the Government of India said the Pradhan Mantri Ujiwala Vojana (PMUY) would provide free liquefied petroleum gas (LPG) connections to households below the poverty line. The



Clean cooking: Women make tea on an earthen st primary objective was to make clean cooking fuel available to rural and poor households and reduce their dependence on traditional cooking fuels. The PMUY has established infrastructure to go with LPG connections, including free gas stoves, deposits for LPG cylinders, and a distribution network. The programme has thus, been able to play a vital role in reducing black carbon emissions, as it offers a cleaner alternative to traditional fuel consumption. The programme has provided connections to over 10 crore households as of January 2024. However, in 2022-2023, 25% of all PMUY beneficiaries – 2.69 crore people—availed either zero LPG reffil, according to RTI data, meaning they still relied entirely on traditional biomass for cooking. The Hindu found in August 2023 that the average PMUY beneficiary household consumes only 3.5-4 LPG cylinders per year instead of

the six or seven a regular non-PMUY household uses. This means up to half of all the energy needs of a PMUV beneficiary household are still met by traditional fuels, which have high black carbon emissions. A shortage of LPG and higher usage of traditional fuels also affect women and children disproportionately. They are more prone to higher levels of indoor air pollution, causing many health issues and leading to premature deaths.

What is the government's role?
The key to enhancing the quality of life in these areas lies primarily in securing access to clean cooking fuels. While the future holds the promise of meeting energy needs in rural areas through renewable sources, the immediate benefits for rural communities are poised to come from using LPG.
In October 2023, the government increased the LPG subsidy to ₹300 from

₹200. But with rapid increase in LPG prices over the last five years, the cost of a 14.2 kg LPG cylinder, even with an additional subsidy, is still about ₹600 per cylinder. More PMUY beneficiaries find the price too high, more so since cow dung, firewood, etc. are 'free' alternatives. Prime Minister Narendra Modi amonunced a further price reduction of ₹100 in March 2024, but this subsidy is exerced to be temporary. The reduction of ₹100 in March 2024, but this subsidy is expected to be temporary. The government has estimated that about ₹12,000 crow will be spent on PMUY subsidies in 2024-2025, a figure that has continuously increased each year since the scheme's inception. While it is the rightful duty of the government to make clean fuel affordable through subsidies, the problem of low refill rates will persist if availability issues are not addressed. Another big hurdle to the PMUY's success is the lack of last-mille connectivity in the LPG distribution

success is the lack of last-mile connectivity in the LPG distribution network, resulting in remote rural areas depending mostly on biomass. One potential solution to this issue is the local production of coal-bed methane (CBM) gas by composting biomass. CBM is a much cleaner fuel with lower black carbon emissions and investment. Panchayats can take the initiative to produce CBM gas locally at the village level, ensuring every rural household can access clean cooking fuel.

What about the global stage?

What about the global stage? As India navigates its responsibilities on the global stage towards long term decarbonisation, there is an urgent need to act. Prioritising black carbon reduction through initiatives such as the PMUY scheme can help india become a global leader in addressing regional health concerns and help meet its sustainability Development Gool of providing affordable clean energy to everyone and contributing to global climate mitigation. Recent estimates have indicated that mitigating residential emissions will avoid more than 6.1 lakh deaths per year from Indoor exposure to air pollution.

The authors work at the Center for Study of Science, Technology and Policy (CSTEP).

Black carbon is the dark, sooty material emitted alongside other pollutants when biomass and fossil fuels are not fully combusted. It contributes to global warming and poses severe risks.

THE GIST

Most black carbon emissions in India arise from burning biomass, such as cow dung or straw, in traditional cookstoves. According to a 2016 study, the residential sector contributes 47% of India's total black carbon emissions.

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The hindu analysis by saurabh pandey sir



Curb black carbon emissions

- A t the COP26 climate talks in Glasgow in November 2021, India pledged to achieve net-zero emissions by 2070, positioning itself as a frontrunner in the race to carbon neutrality.
- According to the Ministry of New and Renewable Energy, India had installed a renewable energy capacity of over 180 GW by 2023 and is expected to meet its target of 500 GW by 2030.





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- The primary objective was to make clean cooking fuel available to rural and poor households and reduce their dependence on traditional cooking fuels





Can AI help in navigating mental health?

How can natural language processing programmes offer personalised and immediate care? How can bias be mitigated in these chatbots? Do they help clinicians as well?

PULSE-CHECK

Iti Bhargava Manmath Goel Namrata Rao

The story so far:

e live in a world where therapy is a text away. Natural language processing (NLP), a branch of Artificial Intelligence (AI), enables computers to understand and interpret human language that mirrors human comprehension. In mental healthcare, we are already seeing a rapid evolution of use cases for AI with affordable access to therapy and better support for clinicians.

How does it help patients?

External and internalised stigma persists across demographics and countries. Through text-based platforms and virtual mental health assistants, NLP programs provide privacy and anonymity that can improve help-seeking behaviour. For users, the chatbot can support them in reframing thoughts, validating emotions and providing personalised care, especially in the absence of human support. Not only is this beneficial when a therapist is not accessible, but it also helps improve patient health outcomes just as well as in-person care. Mental health treatment requires continuity of care to take a more holistic approach and reduce instances of relapse. For example, digital therapy assistants can help point you to resources for healthier coping in instances of distress, grief, and anxiety. Since these chatbots are scalable, cost-effective, and available 24x7, they could therefore be integrated into existing health programs. Additionally, companies building chatbots must proactively expand the scope of service delivery

through partnerships and collaborations for follow-up services such as referrals, in-person treatment, or hospital care, where needed.

How does it help clinicians?

Mental health illnesses have complex causes of origin, making it difficult to design a straightforward protocol or make a quick and accurate diagnosis. By using vast datasets, Al tools can help summarise information including clinical notes, patient conversations, neuroimages, and genetic information. This can help clinicians get up to speed with the entire patient history, saving valuable time during sessions.

Recent advancements in NLP programs have demonstrated the ability to forecast responses to antidepressants and antipsychotic drugs by analysing brain electrical activity, neuroimages, and clinical surveys. Such predictive capability can streamline treatment

decisions and minimise the risk of ineffective interventions. Some chatbots are also creating e-triaging systems that can significantly reduce wait time and free up valuable clinical person-hours. With improving bandwidth, mental health providers can devote a higher proportion of time to severe mental illnesses, such as bipolar disorder and schizophrenia, where specialised care is required.

What's next?

There is immense potential and promise in these applications and we expect to see a growing adoption. Going forward, companies must refine these applications by using more diverse population-wide datasets to minimise bias. These programs can also incorporate a wider set of health indicators for a comprehensive patient care experience. We expect greater success of these programs if they are guided by a conceptual framework for improving health outcomes and rigorously and continuously tested.

In the pursuit of innovation, governments and institutions need to prioritise user safety and well-being by ensuring adherence to global compliance standards. As these applications evolve, we must persist in updating our beliefs, governing laws and regulations, and demanding better standards of care.

Iti Bhargava and Namrata Rao are researchers in mental health in India, and Manmath Goel is a healthcare investor.

THE GIST

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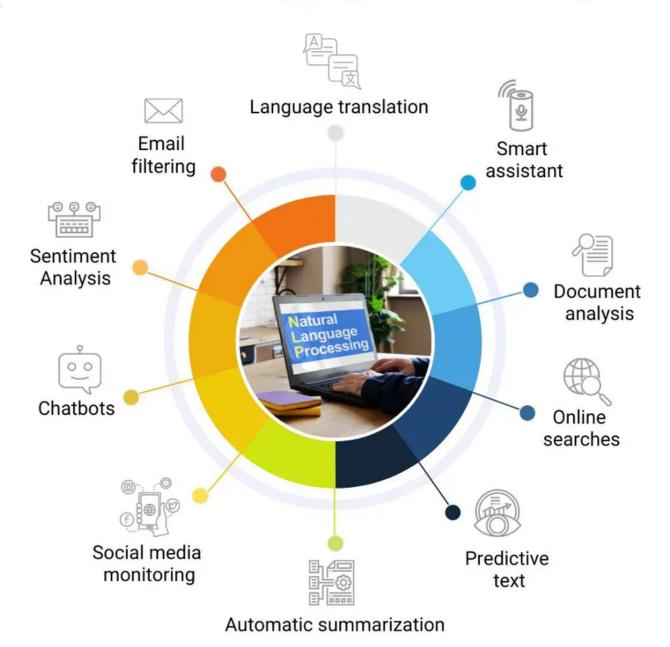


AI FOR MENTAL HEALTH

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Applications of Natural Language Processing





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Drowning the major cause of migrant deaths: UN

Agence France-Presse

Drowning had been the biggest cause of recorded migrant deaths over the past 10 years, the UN's migration agency said on Tuesday. Of the 64,000 migrant deaths recorded by the UN's International Organization for Migration (IOM) over the last decade, nearly 60% were linked to drowning.

Of those deaths at sea, over 27,000 occurred in the Mediterranean, a route followed over the years by many migrants trying to reach southern Europe from northern Africa.

The IOM however stressed the figures published in the report were incomplete. Of those recorded, two in three cases remained unidentified. In over half of all cases, the IOM was unable to even establish the sex or age of the migrant. Despite the limits in the data, the IOM had recorded the deaths of "almost 5,500 females" on migration routes and "nearly 3,500" children.

And in cases that could be identified, just over onethird came from "countries in conflict or with large refugee populations".

The figure highlighted "the dangers faced by those attempting to flee conflict zones without safe pathways", it said.

Over 8,500 people died on migration routes worldwide in 2023, making it the deadliest year since the IOM started collecting data a decade ago.

So far in 2024, the figures were "no less alarming", the organisation said.



The hindu analysis by saurabh pandey sir



Drowning major cause of Migrant Death

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UN's International Organization for Migration (IOM)

- Established in 1951, the International
 Organization for Migration (IOM) is the leading
 intergovernmental organization in the field of
 migration and is committed to the principle
 that humane and orderly migration benefits
 migrants and society. IOM is part of the United
 Nations system, as a related organization.
- IOM supports migrants across the world, developing effective responses to the shifting dynamics of migration and, as such, is a key source of advice on migration policy and practice.





- The organization works in emergency situations, developing the resilience of all people on the move, and particularly those in situations of vulnerability, as well as building capacity within governments to manage all forms and impacts of mobility.
- The Organization is guided by the principles enshrined in the Charter of the United Nations, including upholding human rights for all.
- Respect for the rights, dignity and well-being of migrants remains paramount.



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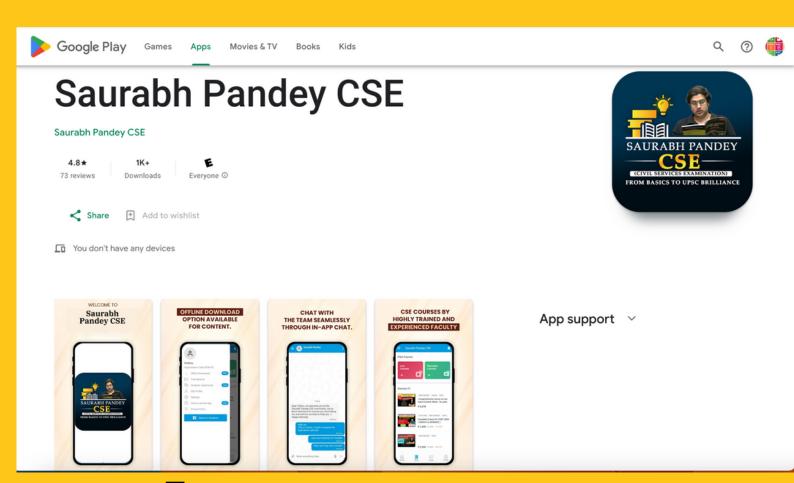
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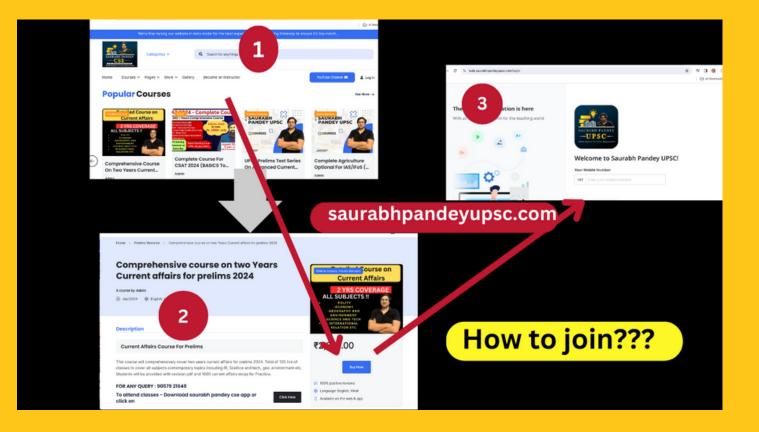
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