

# DAILY PT POINTERS

## 13 January, 2025



### The Hindu-GS2(Health)Page1

### Declining fertility levels push up Kerala's maternal mortality ratio

#### C. Maya

THIRUVANANTHAPURAM

Kerala's maternal mortality ratio, the lowest in the country at 19 per one lakh live births, is now climbing steadily, much to the consternation of the State Health Department. The reasons for the increase may be beyond the control of officials.

The latest Sample Registration System special bulletin on maternal mortality in India (2018-20), brought out by the Registrar-General of India, put Kerala's MMR at 19. However, while it depended on a sample survey to arrive at the figure, the State Health Department's actual estimates of maternal deaths -Kerala has near 100% institutional deliveries - put the figure at 29.

Except during 2020-21, when Kerala lost many women to COVID-19 during pregnancy and childbirth, the State had consistently held a firm grip over maternal mortality. Ironically, the current spike is not because more women are dy-

#### A worrving trend

Kerala's MMR is beginning to climb now because of fewer child births than ever in the State



#### The State has now hit a low of 3,93,231 births from an average of 5-5.5 lakh annually earlier

of the State. It is this dip in the denominator that is pushing the MMR up and not necessarily an actual spike in maternal deaths.

The Health Department puts live births in the State between 3.4 lakh and 3.9 lakh currently. The full Vital Statistics Report (VSR) for 2023 is expected by January-end. The decline in fertility

Source, Sansaie Registration System buildtin of Registrantioneral of Infilm From an average of 5.5 lakh annual births since the 1980s, the graph went below the five-lakh mark for the first time in 2016. when 4,96,262 live births were recorded. Since 2018, the figure has been plummeting steadily, never go-

ing above the five-lakh mark again. The last published VSR (2021) recorded the total number of live births as 4,19,767.

"As part of the Sustainable Development Goals, (IIMAD). Kerala was targeting an MMR of 20 by 2030. However, that looks quite unlikely now, given that birth rates are falling steenly. We

dressed all major medical causes of maternal mortality, the issues that are impacting the State's MMR now are not something essentially within our control. We are seeing the imof demographic pact changes like low fertility rates, immigration and changing societal attitudes towards marriage and childbirth in Kerala much earlier than we thought we would," Dr. Paily says.

we have successfully ad-

"It has been three decades since the birth rate began falling in Kerala and the steep fall in the number of children born now is part of a larger trend. But the problem is that once the fertility rate comes down, the graph rarely goes up because demographic transition is hard to reverse," says S. Irudaya Rajan, Chairman of the International Institute of Migration and Development

Kerala led the demographic transition in the South, attaining the replacement level fertility rate of 2.1 in 1987-88 Re-

- Kerala has the lowest MMR in India at 19 per 100,000 live births.
- The MMR is now climbing due to fewer childbirths, not more maternal deaths.
- Decline in Birth Rate:
- Kerala's annual live births have decreased from 5-5.5 lakh to 3.93 lakh.

The decline in fertility levels and changing demographics impact the social fabric.

Kerala targeted an MMR of 20 by 2030, now unlikely due to falling birth rates.

- Demographic Changes: Low fertility rates and changing societal attitudes affect MMR.
- Migration and delayed childbearing contribute to the decline in births.
- Migration of reproductive age group affects birth rates.
- Proportion of elderly population expected to exceed children in the next decade.



### The Hindu –GS2(Governance)-Page 8

### Should voter IDs be linked with Aadhaar?

Why was the National Electoral Rolls Purification and Authentication Program launched by the Election Commission? How do already existing voters link EPIC with their respective Aadhaar numbers? What did the Supreme Court mandate in the Puttaswamy case in 2018?

#### EXPLAINER

#### Rangarajan, R The story so far-

he Aam Aadmi Party (AAP) and the Bharatiya Janata Party (BIP) have accused each other of manipulating electoral rolls before the Delbi Assembly elections. This has reignized the debate about linking voter IDs/Election Photo Identity Card (EPIC) with respective Aadhaar numbers.

What is the history of the proposal? The Election Commission (EC) had in February 2015 Jaunched the National Electoral Rolls Purification and Authentication Program (NERPAP). This was to address the issue of duplicate entries in the electoral roll and to remove such entries. In order to achieve this, the EC began authenticating EPIC data bylinking it with the Andhuar database. It had linked more than 300 million voters. in a span of three months. However, the Supersities Court in an interim order. In August 2005, held that the mandatory use of Aadhaar should only be for welfare schemes and PAN linking. Following this order, the NERPAP exercise was discontinued

After the Supreme Court's final order in Puttaneously in September 2018, that upheld the constitutional validity of the Aadhaar Act, the EC sought amendments to the Representation of the People Act. 1950 (RP Act, 1950). The Parliament amended the RP Act, 1950 and The Registration of Electors Rules, 1960 in December 2021 to enable the linking of EPIC with Aadhaar. It provided the format in which Aadhaar information may be submitted to the electoral registration officer by a new voter at the time of fresh registration (Form 6: to establish identity) or an existing voter already included in the electoral roll (Form 68: for the purpose of authentication). Any other listed document may be submitted only if



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Aadhaar number because they do not 1 in September 2023 informed the court have one. However, in order to keep these that submission of the Aadhaar number is amendments voluntary in nature, the not mandatory. It added that it is looking word 'may' have been used in the into issuing appropriate clarificatory amendments. Further, the amendment changes in the forms introduced for this also specifies that no application for purpose. However, it may be noted that inclusion of name in the electoral roll. Form 6 and 6B have not been amended shall be denied and no entries shall be till date and they continue to seek the same details as before from the deleted due to the inability of an individual to furnish or intimate the applicants. Aadhaar number due to 'sufficient cause.' The forms require the voters to declare Such individuals may furnish alternate that they do not have an Aadhar number documents like PAN card, Driving to avoid providing the same. Licence, Passport, Bank passbook etc. What are the pros and cons? While the above amendments were

present, more than 650 million Aadhaar numbers have already been uploaded in the process of finalising the electoral rolls. However, there are some concerns about this exercise that need to be considered. Firstly, the errors in the Aadhaar database, however miniscule, may result in wrongful rejection or deletion of entries from the electoral roll, Secondly, Aadhaar is only a proof of residence and not a proof of citizenship. Thus, it may not help in removing voters who are not citizeus from the electoral roll, it would require a separate effort from the EC. Finally, while the linkage is to happen at the back end and a mere mention of the Aadhaar number on the 19PIC/electoral roll may not by itself be a violation of right to privacy, it may still result in misuse as the electoral rolls are widely circulated amongst political

number would definitely help in weeding THE GIST out duplicate entries; that is essential. At The right to vote is a constitutional right and declared so by the Supreme Court in various cases, it is part

#### The Election Commission of India (EC) had in February 2015 launched the National Cloringed Bolls Durification and Authentication Program (NERPAP). This was to address the issue of duplicate entries in the electoral roll and to remove such entries.

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EPIC linkage with the What can be the way forward? respective Aadhaar number The right to vote is a constitutional right would definitely help in and declared so by the Supreme Court in weeding out duplicate entries various cases. It is part of the basic that is essential. structure of free and fair elections and cannot be constricted through legislative action. Citizens are the most important stakeholders in a democracy and any electoral process should gain their confidence. There must be wide publicity about the benefits of linking EPIC and Aadhaar to clean up the electoral roll of duplicate entries, which in turn strengthens the electoral process. Any misplaced concern amongst voters about the secrecy of their vote being compromised because of this linking should be assuated. Meanwhile, the forms should be suitably modified without any delay, to reflect that providing Aadhaar is not mandatory, as per the submission of the EC in the Supreme Court in September

Rangarajan R is a former IAS officer and author of Polity Simplified. Views

In 2015, The Election Commission (EC) launched the National Electoral Rolls Purification and Authentication Program (NERPAP) to address duplicate entries in the electoral roll by linking voter IDs with Aadhaar.

- The Supreme Court limited Aadhaar's mandatory use to welfare schemes and PAN linking, halting NERPAP.
- September 2018: SC upheld Aadhaar's constitutionality, prompting the EC to seek amendments to the RP Act, 1950. December 2021: Parliament amended laws allowing voluntary voter IDs-Aadhaar linking.
- September 2023: The EC clarified that submission of Aadhaar number is not mandatory, but the forms (Form 6 and 6B) remained unchanged, still requesting Aadhaar details.

**Pros** : Eliminates Duplicate Entries, Widespread Aadhaar Integration

**Cons:Small errors could lead to wrongful rejection or** deletion of voter entries.

**Privacy Concerns Therefore The benefits of linking EPIC** with Aadhaar, such as reducing duplicate entries, should be widely publicized to gain voter confidence





### The Hindu –GS3(Science and Tech)-Page 8

# What is different about small language models?

What led to the shift to small language models from large language models? What are the use cases for such models? Are they better than LLMs?

#### Poulomi Chatterjee

### The story so far:

🝸 e've achieved peak data," former OpenAI chie scientist Ilv: Sutskever said onstage at the NeurIPS conference last year. "We have to deal with the data that we have, and there's only one Internet." Mr. Sutskever's comment comes amidst speculation that

the speed of progress in large language models (LLM) was hitting a wall as scaling was reaching its digital end. Haiku alongside its Opus.

#### Why are smaller models in demand?

The race towards building large AI models has been building up ever since OpenAI released their 175 billion parameter LLM, GPT-3, in 2020. In the next three years, 

parameters. But, in 2024, researchers started to look at language models differently as scaling training data, scoured from the Internet, was giving marginal gains. The idea of building smaller language models emerged then. This is evident in announcements made by Big Tech firms. Most of them released a nifty language model alongside billion parameters). their flagship AI models. Google Apple Intelligence, the AI system DeepMind released Gemini Ultra, Nano deployed in the latest iPhones and iPads. runs on-device AI models that can sort of and Flash models, while OpenAI and Meta launched their GPT-40 mini and match the performance of top LLMs. If Llama 3 models. Amazon-backed LLMs are built to achieve Artificial Anthropic AI launched Claude 3 and General Intelligence (AGI), small language

What are the pros and cons of small language models? Small Language Models (SLMs) are cheaper and ideal for specific use cases.

required. Training small models require less time, less compute and smaller training data. French start up Mistral AI, an SLM provider, pitched its AI model to be as efficient as LLMs for specialised, similar to how small language models and focused applications. Microsoft released a large language models work," he said. family of small language models called Phi (the latest Phi-3-mini comprised 3.8 How does it work for India?

In a country like India, where the scope of AI adoption is immense but resources are constrained, the diminutiveness of SLMs is perfect. Another AI initiative from IIIT Hyderabad, Visvam, is building datasets from the ground up to build SLMs that can be used in healthcare, agriculture, models are made for specific use cases. education and to "promote and preserve language and cultural diversity through AI," their website stated. As the world of language model develops, it's not just enough to build frontier models from

scratch, Sarvam AI's co-founder Vivel

Former OpenAI chief scientist Ilya Sutskever noted that we've reached the limits of data scalability with the current internet.

- Demand for Smaller Models: With large models showing diminishing returns, researchers are now focusing on smaller language models.
- Tech Announcements: Companies like Google DeepMind, OpenAI, Meta, and others have launched smaller models alongside their flagship models.
- Pros: Smaller models are cheaper, require less compute, and are ideal for specialized tasks.
- **Cons**: They may not perform as well on complex tasks like coding and logical problems.
- India's Perspective: Smaller models are well-suited for resource-constrained environments like India, with initiatives aiming to build AI that supports various sectors and cultural preservation

How do use cases differ?

"Small language models are perfect for edge cases," said Rahul Dandwate, ML engineer at Adobe. "When I am using

We still aren't fully aware why this Al model is not required. bottleneck exists. "But the best way we can understand this is just as human beings have brains with a massive number "Small language models are of neurons, a smaller animal has a limited perfect for edge cases," said Rahul Dandwate, ML engineer number of neurons. This is why human

at Adobe. brains have the capacity for far more complex levels of intelligence. This is

trying to learn a new language because its

reasonably good at translation and other

"But they wouldn't do well at most

benchmarks that large language models

logical problems. There still isn't a small

language model that's as good at solving

more complex problems," he said.

are measured against like coding or

basic tasks like this."

In a country like India, where the scope of Al adoption is

THE GIST

Small Language Models (SLMs)

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The Hindu- Environment(GSIII)-Page 10

# Centre's wildlife panel clears oil and gas exploratory drilling in Assam sanctuary

#### Press Trust of India NEW DELHI

The Centre's wildlife panel has approved a proposal to carry out oil and gas exploration in the ecosensitive zone of the Hoollongapar Gibbon Wildlife Sanctuary



According to the minutes of the NBWL meeting, a team comprising officials from the Union Environment Ministry, the Wildlife Institute of India, and the Assam Forest Department inspected the project site, located about



The Centre's wildlife panel has approved a proposal to carry out oil and gas exploration in the ecosensitive zone of the Hoollongapar Gibbon Wildlife Sanctuary in Assam's Jorhat district.

Hollongapar Gibbon Wildlife sanctuary, more popularly known as Gibbon Wildlife Sanctuary named after Hoolock Gibbon covers an area of 20.98 square kilometers (including the area under Military Engineering Services of Indian Army) at Jorhat district of Assam.

 The Hoollongapar Gibbon Wildlife Sanctuary was earlier known as Hoollongapar Forest during British period in 1881. This sanctuary is approximately 19 km from Jorhat's town centre and 5 km from Mariani.

### Indian Express-IR(GSII)-Page 16

### Trump's call to rename Gulf of Mexico: history of names 'America', 'Mexico'

#### **RISHIKA SINGH**

NEW DELHI, JANUARY 12

from its first documented use on a map. continent... It was the first map, printed or US PRESIDENT-ELECT Donald Trump said When Christopher Columbus sailed to the manuscript, to depict clearly a separate last week that he would rename the Gulf of Americas in 1492, he did not know he had Western Hemisphere, with the Pacific as a Mexico "Gulf of America", while talking reached another continent unknown to separate ocean. The map represented a huge leap forward in knowledge..." about trade deficit and illegal immigration most in Europe.

The most frequently cited theory about ported Vespucci's revolutionary concept by

the origin of the name "America" stems portraying the New World as a separate

Where do the names come from?



changing the name of the Gulf of Mexico to the Gulf of America, which many of his accounts are taken with a grain of According to a Mexico government web- Sheinbaum last week. Reuters has a beautiful ring... and it's appropriate." salt today. When a German scholar, Matthias site, the most accepted theory says the In response, Mexico President Claudia Ringmann, found these letters, he and fellow name "is formed from three Nahuati words: Sheinbaum said North America should be cartographer Martin Waldseemüller decided metztili meaning 'moon'; xictili which trans-name (first used in 1824) is 'United Mexican gas processing plant capacity." renamed "Mexican America", as men- to create a world map. It showed a narrow lates to 'belly button' or 'centre'; and the af- States", inspired by the USA since it too is a tioned in some 17th-century maps. She strip of land marked "America", inspired by fix -co indicating 'place'." It refers to the federation of states. added sarcastically, "Mexican America, that Vespuce's first name. olden city of Tenochtitlan that now lies in

sounds nice."

Vesoucci was the first to write It is said to be derived from the Nahuatl lanabout the existence of a "New guage spoken by the Aztecs, who ruled the World' in his letters, though region between the 14th and 16th centuries. Mexican President Claudia

Waldseemüller's 1507 world map... sup

Wednesday, Sheinbaum displayed a map oceans and navigable waters are surveye from 1607 that included the Gulf of Mexico." and charted uniformly, and also name Many voyagers followed Coming to Mexico, the story behind its him. Italian explorer Amerigo name is often linked to a powerful empire.

The US Library of Congress says: "Martin the heart of Mexico City, Mexico's official And what about the Gulf of Mexico?

renaming would not be a "unilateral deci- naming maritime areas".

It is a significant region for the US, espe- some of them. There are instances when cially for energy resources. The government's countries refer to the same body of wab Energy Information Administration states: or landmark by different names in the "Gulf of Mexico federal offshore oil produc- own documentation. tion accounts for 14% of total US crude oil pro-For instance, multiple nations have duction and federal offshore natural gas pro- made overlapping claims regarding th duction in the Gulf accounts for S% of total US South China Sea. However, there is no priv dry production. Over 48% of total US petro-dispute over the Gulf of Mexico and befor

leum refining capacity is located along the Trump, no major US politician ever de Gulf coast, as well as 51% of total US natural manded its renamine John Nyberg, the director of th

#### International Hydrographic Organisatio Can Trump rename the Gulf of Mexico? told The NYT there is "no formal intern The Associated Press reported that any tional agreement or protocol in place fi

According to The New York Times, "The sion" of the US. It added, "The Internation

gull's name first appeared on maps used by Hydrographic Organisation - of which bol

Spanish explorers in the 16th century, well the United States and Mexico are member before the founding of the United States. Last -works to ensure all the world's sea



- President-elect Donald Trump announced plans to rename the Gulf of Mexico to the "Gulf of America" on January 7. This statement was part of a broader critique of Mexico's trade deficit and illegal immigration issues. Trump also made hostile remarks about US neighbors, including threats to take control of Greenland and the Panama Canal, and referred to Canada as the "51st" US state. He justified the renaming by stating that the US does most of the work in the region and that the new name is appropriate.
- The Gulf of Mexico is a semi-enclosed basin connected, to the south, to the Caribbean Sea, and to the North Atlantic Ocean to the east.

### PIB-IR(GSII)



Ministry of Commerce & Industry

India-Nepal Inter-Governmental Committee meeting on trade transit and cooperation to combat unauthorised trade concludes in Kathmandu

Posted On: 12 JAN 2025 6:56PM by PIB Delhi



- The India-Nepal Inter-Governmental Committee (IGC) on Trade, Transit, and Cooperation to Combat Unauthorised Trade was held in Kathmandu from January 10-11, 2025.
- Secretary, Department of Commerce, Government of India, Shri Sunil Barthwal led the Indian delegation which included senior officials from various Ministries and the Embassy of India in Kathmandu.
- This meeting of the IGC, a bilateral mechanism aimed at strengthening trade and investment ties, carried out a comprehensive review of the whole gamut of bilateral trade and economic relationship. Both sides reviewed mutual market access issues, IPR and duty related issues. The agenda also included discussions on review of the Treaty of Transit and the Treaty of Trade, proposed amendments to existing agreements, the harmonization of standards and the synchronized development of trade infrastructure including the electrification of the Raxaul-Birgunj rail line.

### PIB-Economy(GSIII)

#### Ministry of Statistics & Programme Implementation

### India Joins the UN Committee of Experts on Big Data and Data Science for Official Statistics

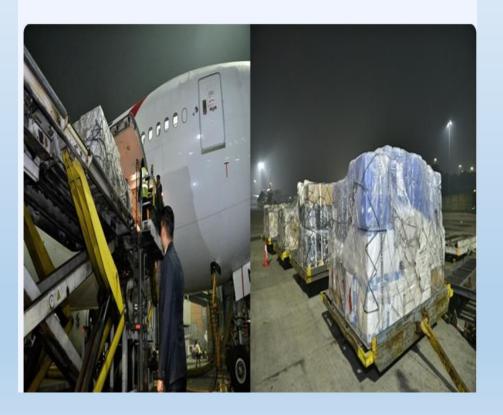
Posted On: 11 JAN 2025 1:27PM by PIB Delhi



- In a significant milestone, India has joined the prestigious UN Committee of Experts on Big Data and Data Science for Official Statistics. The UN Committee of Experts on Big Data and Data Science for Official Statistics (UN-CEBD) was created to further investigate the benefits and challenges of Big Data, including the potential for monitoring and reporting on the sustainable development goals.
- The inclusion in this expert committee comes at a pivotal time, as India recently assumed membership of the United Nations Statistical Council after a significant gap. India's inclusion in the Committee of Experts represents a significant leap forward for the country's statistical ecosystem. As part of the committee, India will contribute to shaping global standards and practices in harnessing big data and data science for official statistical purposes. This milestone underscores India's growing stature in the global statistical community and highlights its commitment to leveraging data and technology for informed decision-making.

### Air-Places (GSI)

### India Extends Humanitarian Aid To Cuba After Hurricane Rafael





Cuba is a country in the Caribbean region.

### Capital: Havana

Location: Cuba is located where the northern Caribbean Sea, Gulf of Mexico, and the Atlantic Ocean meet. Cuba's terrain is mostly flat or rolling plains, with rugged hills and mountains in the southeast. Highest point is **Pico Turquino** 

It is a part of the Sierra Maestra Mountain range, located in the southeast of the island. The country's longest river is the Cauto;

