

Artificial Intelligence Portal SUPACE



- The Chief Justice of India unveiled the Supreme Court of India's Artificial Intelligence (AI) portal SUPACE
- CJI launched the AI based portal in the judicial system aimed at assisting judges with legal research “more efficiently, methodically and systematically” than a human mind but said it will not be allowed to “spill over” into decision making.
- It is designed to make research easier for judges, thereby easing their workload.

- **SUPACE is a tool that collects relevant facts and laws and makes them available to a judge.**
- **The portal is the pet project of CJI SA Bobde**
- **The Supreme Court's system is not designed to take decisions, but only to process facts and to make them available to judges looking for an input for a decision.**
- **With this portal, the SC intends to leverage machine learning to deal with the vast amounts of data received at the time of filing of cases.**
- **It is a perfect blend of human intelligence and machine learning. A hybrid one**
- **This AI powered portal will ease pendency of cases**
- **It can address bottlenecks resulting in excessive delays**
- **It has the potential to be a tremendous asset in the justice delivery system. In the future, AI will present a more streamlined, cost effective and time bound means of bringing to fruition the fundamental right of access to justice**

Security and Growth for All in the Region (SAGAR)

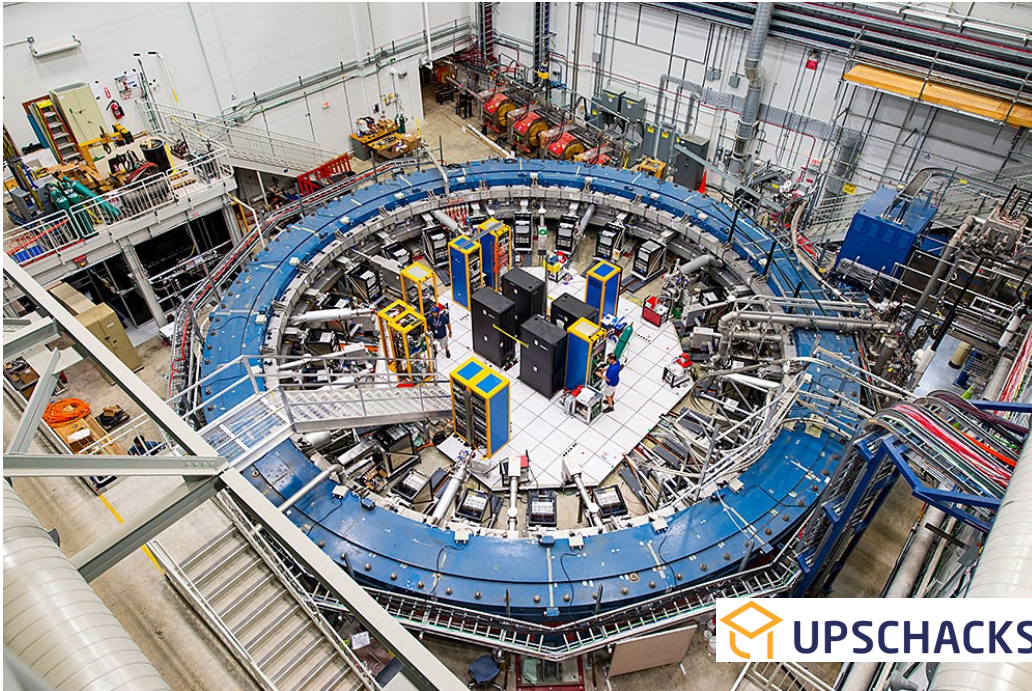


- In 2015, India unveiled its strategic vision for the Indian Ocean i.e. Security and Growth for All in the Region (SAGAR).
- It is an increasing recognition of the increasing importance of maritime security, maritime commons and cooperation.
- Through SAGAR, India seeks to deepen economic and security cooperation with its maritime neighbours and assist in building their maritime security capabilities.
- For this, India would cooperate on the exchange of information, coastal surveillance, building of infrastructure and strengthening their capabilities.
- SAGAR provides a mechanism for India to expand strategic partnerships with other IOR littorals in Asia and Africa.

- **SAGAR indicates the leadership role and responsibilities India is ready to play in the region on a long-term basis in a transparent manner through its capacity building and capability enhancement programs.**
- **The key relevance of SAGAR emerges when seen in conjunction with India's other policies impacting the maritime domain like Act East Policy, Project Sagarmala, Project Mausam, India as 'net security provider', focus on Blue Economy etc.**
- **This symbolises India's maritime resurgence, as maritime issues are now centre of India's foreign policy.**
- **With effective implementation of all these policies, India can act as an enabler to create a positive environment in the IOR.**



Muon g-2



- Newly published results of an international experiment hint at the possibility of new physics governing the laws of nature.
- The results of the experiment, which studied a subatomic particle called the muon, do not match the predictions of the Standard Model, on which all particle physics is based, and instead reconfirm a discrepancy that had been detected in an experiment 20 years previously.
- The experiment, called Muon g-2 (g minus two), was conducted at the US Department of Energy's Fermi National Accelerator Laboratory (Fermilab).

What is the Standard Model?

- The Standard Model is a rigorous theory that predicts the behaviour of the building blocks of the universe.

- It lays out the rules for six types of quarks, six leptons, the Higgs boson, three fundamental forces, and how the subatomic particles behave under the influence of electromagnetic forces.
- The muon is one of the leptons. It is similar to the electron, but 200 times larger, and much more unstable, surviving for a fraction of a second.


Muon $g-2$ experiment



- It measured a quantity relating to the muon, following up a previous experiment at Brookhaven National Laboratory, under the US Department of Energy.
- Concluded in 2001, the Brookhaven experiment came up with results that did not identically match predictions by the Standard Model.
- The Muon $g-2$ experiment measured this quantity with greater accuracy.

What quantity was measured?

- It is called the g -factor, a measure that derives from the magnetic properties of the muon.
- The rate at which the muon wobbles is described by the g -factor, the quantity that was measured.

- This value is known to be close to 2, so scientists measure the deviation from 2. Hence the name $g-2$.
- The new experimental results (combined from the Brookhaven and Fermilab results) announced are:
- g-factor: 00233184122 
- anomalous magnetic moment: 00116592061.

UPSC_HACKS
www.upschacks.com

INDIAN NATIONAL YOUNG ACADEMY OF SCIENCES (INYAS)

- INYAS has launched a multipronged nationwide mass awareness campaign to bust myths about Covid 19 vaccination programme.
- The campaign will be carried out through COVACNEWS android-based mobile app.
- Indian National Young Academy of Sciences (INYAS) is the first and only recognized young scientist academy of India.
- INYAS was founded by the Indian National Science Academy (INSA) council in 2014 with a vision to promote Science education and networking among young scientists at National as well as International level.



Madhukranti Portal



- The Union Agricultural Minister Narendra Singh Tomar launched the Madhukranti portal and Honey Corners of NAFED to promote the Honey Mission in India.
 - The Madhukranti portal is an initiative of National Bee Board. It is operated under the National Beekeeping and Honey Mission.
- The main objectives of the Madhukranti portal are as follows:**
- The portal has been developed to achieve the traceability source of honey and bee hive products on the digital platform.
 - The platform will help in checking the quality and source of adulteration of honey.
 - The portal will help in increasing income of the farmers, boost exports and increase employment generation.

- The portal will hold the database of all the stakeholders involved in honey production, marketing chains, hive production and sales.
- This will increase the reach of honey to international markets. By this, the stakeholders can easily be contacted.

Honey Corners

- The Honey Corners are special spaces for the sale of honey.
- It is operated by NAFED. NAFED is National Agricultural Cooperative Marketing Federation. NAFED has developed 14-15 honey corners.
- More honey corners are to be developed in most of the upcoming major 200 NAFED stores. This will promote market support for honey.



National Beekeeping and Honey Mission

- It is a central sector scheme that was approved by the Government of India for Rs 500 crores.
- It aims at scientific bee keeping and production of honey.
- The main objective of the mission is to achieve the goal of “Sweet Revolution”. The Government of India has been establishing quality testing labs to address the issues related to quality of honeybees under the mission.

Anamaya: Tribal Health Collaborative



anamaya
अनामय

THE TRIBAL HEALTH COLLABORATIVE



UPSCHACKS

- . Union Health and Family Welfare Minister along with Union Minister of Tribal Affairs launched the Tribal Health Collaborative 'Anamaya' through a video conference on April 07, 2021
- . It is a multi-stakeholder initiative launched by the Union Health Ministry in collaboration with the Union Minister of Tribal Affairs on April 07, 2021.
- . The collaborative is in association with Bill and Melinda Gates Foundation (BMFG) and Piramal Foundation.
- . This collaborative aims at enhancing the health and nutrition eco-system of the tribal communities of India by converging efforts of various Government agencies and organizations.
- . With this collaborative, the Ministry will work on setting up the National Council on Tribal Health and a Tribal Health Cell to monitor healthcare needs in the tribal areas as well as implement the Tribal Health Action Plan.

Amboli- biodiversity heritage site



 UPSCHACKS

- The Maharashtra government declared an area at Amboli in Western ghats in Sindhudurg district, where a rare freshwater fish species *Schistura Hiranyakeshi* was discovered, as a biodiversity heritage site.
- *Schistura Hiranyakeshi* is a rare sub-species of *Schistura*, a freshwater loach.
- The fish was named after the *Hiranyakeshi* river near Amboli village.

- Schistura is a small and colourful fish that lives in water and streams in an abundance of oxygen.
- Earlier, the State government had declared the Glory of Allapalli in Gadchiroli district, Landor Khori Park in Jalgaon, Ganesh Khind in Pune, myristica swamp vegetation in Sindhudurg district as biodiversity heritage sites.



- **Biodiversity Heritage Sites**
- These are notified areas of biodiversity importance in India.
- The Indian State Government can notify the Biodiversity Heritage Sites in consultation with local governing bodies under Section 37 of Biological Diversity Act of 2002.
- These areas are considered unique and fragile ecosystems.
- They can be either terrestrial, coastal and inland waters or marine ecosystems.

Robot dog Spot tested in combat scenarios by French army



- The French army tested Boston Dynamics' four-legged robot dog Spot and other robots for reconnaissance during a two-day training exercise.
- Students at the Saint-Cyr military school ran a number of scenarios, once with the robots and once without them.
- One of the students said they were killed in a scenario without robots but not when the robot had done reconnaissance.

Twitter launches emoji for anti-China 'Milk Tea Alliance' movement



MILK TEA ALLIANCE

#TAIWAN #THAI #HONGKONG

 UPSCHACKS

- Twitter has launched 'Milk Tea Alliance' emoji, a global online pro-democracy movement which united anti-China campaigners in Hong Kong and Taiwan with protestors in Thailand.
- The alliance came into being after Chinese nationalists accused a Thai actor and his girlfriend of supporting democracy in Hong Kong and Taiwanese independence.
- It features milk tea shades in Thailand, Hong Kong and Taiwan.

 UPSCHACKS