

### CHATGPT AND AI: ARE WE READY TO FACE THE CHANGE NEW TECH IS BOUND TO BRING ABOUT?

#### Context

- Recently, ChatGPT, the artificial intelligence (AI)-powered chatbot crossed one million users in less than a week since it was officially made available to the public.
- The article explains the meaning, significance and limitations of this new development.

#### About ChatGPT

- ChatGPT is **language-generation software** that's been designed to carry conversations with people.
- The tool has been developed by **OpenAI, a research institute** founded in 2015, by a group of entrepreneurs and researchers, including Elon Musk, Sam Altman, and Greg Brockman.
- GPT stands for **Generative Pre-trained Transformer 3** and this is a kind of computer language model that relies on deep learning techniques to produce human-like text based on inputs.
- Some of its features include the following:
  - Answering follow-up questions
  - Challenging incorrect premises
  - Rejecting inappropriate queries and even admitting its mistakes, etc.
- In practical terms, it means that it can perform tasks like answering questions and carrying on a conversation with humans.

#### Significance of ChatGPT

- ChatGPT's ability to **learn and adapt quickly to new information** means that it can be trained to handle new topics and tasks without the need for extensive retraining.
- Many experts believe that ChatGPT's advanced capabilities will be a **valuable asset for companies** in fields such as customer service, online education, and market research.
- It can **respond** to a large range of questions while **imitating human speaking styles**, e.g., answering customer service queries, help debug a code, etc.

- It is being seen as a **replacement** for the basic emails, party planning lists, CVs, and even college essays and homework.
- It can also do **creative tasks** such as writing a story and can explain scientific concepts and answer any question that needs factual answers.
- ChatGPT is much **more than a chat bot**. For example, it can be asked to write a program or even a simple software application.
- It is also capable of **reviewing and writing codes** in seconds, making the future of coders grim.
- ChatGPT has also been trained to **decline ‘inappropriate’ requests**, presumably those which are ‘illegal’ in nature.

## Limitations of ChatGPT

- The ChatGPT displayed **racial and sexist biases**, which remains a problem with almost all AI models.
- Though it gives grammatically correct and read well answers but few users have pointed out that these **lack context and substance and** are more **generalized**.
- It also **overuses certain phrases** due to biases in the training data.
- It also occasionally produces **inaccurate information** and that its **knowledge** is restricted to global events that occurred **before 2021**.
- It is also **unable** to provide answers to **country-specific questions**.

## Conclusion

- So far, the response to ChatGPT has been overwhelmingly positive, with many praising its advanced capabilities and ease of use.
- It remains to be seen how ChatGPT will be used in the coming years, but it’s clear that it has the potential to be a major player in the world of natural language processing.

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## WHAT IS A TRADEMARK?

On December 21, 2022 the Delhi High Court, in the case of Hamdard National Foundation (India) vs Sadar Laboratories Pvt. Ltd., restrained Sadar Laboratories from manufacturing and selling beverages under the impugned trademark ‘Dil Afza’. The court

observed that the trademark 'Rooh Afza' is prima facie a strong mark requiring a high degree of protection as it has acquired immense goodwill.



## About:

- A trademark is a distinctive sign or indicator used by a business organisation to distinguish its products or services from those of other entities.
- It serves as a badge of origin exclusively identifying a particular business as a source of goods or services.
- **Trademark infringement** is the unauthorised usage of a sign that is identical or deceptively similar to a registered trademark.

## What is a strong trademark?

- A mark is said to be strong when it is well-known and has acquired a high degree of goodwill.
- The degree of the protection of any trademark changes with the **strength of the mark**; the **stronger the mark, the higher the requirement to protect it**.

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## INDIA WILL BECOME 3<sup>rd</sup> LARGEST ECONOMY BY 2035

The Centre for Economics and Business Research (CEBR), a British consultancy, has said India will become third largest economy by 2035 from the current fifth spot.



## About:

- In its **annual World Economic League Table**, the Centre for Economics and Business Research said that over the next five years, **India's annual rate of GDP growth is expected to average 6.4 percent** after which growth is expected to average 6.5 percent in the subsequent nine years.
- CEBR also adds that by **2037, world gross domestic product will be doubled as developing economies will catch up with the richer ones**.

- **The shifting balance of power** will see the East Asia and Pacific region account for over a third of global output by 2037, while Europe's share shrinks to less than a fifth.
- **The global economy** will face recession in 2023 mainly due to rises in interest rates by the central banks to arrest higher inflation.
- The global economy surpassed 100 trillion Dollar for the first time in 2022, but will stall in 2023 as policy makers continue their fight against soaring prices.

## MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES

Ministry of Micro, Small And Medium Enterprises (MSME) has taken many steps during the year for technology advancement, skill development and job creation.



सूक्ष्म, लघु और मध्यम उद्यम मंत्रालय  
MINISTRY OF  
**MICRO, SMALL & MEDIUM  
ENTERPRISES**

### About:

Major achievements of the Ministry in the year 2022 are detailed as follows.

### UDYAMI BHARAT

The Prime Minister of India launched 3 key initiatives for the MSME sector in the 'Udyami Bharat' programme.

- **Raising and Accelerating MSME Performance (RAMP) scheme:** The programme will focus on two result areas: 1) Strengthening Institutions and Governance of the MSME Program and 2) Supporting Market Access, Firm Capabilities and Access to Finance.
- **Capacity Building of First-Time MSME Exporters' (CBFTE) scheme:** To encourage MSMEs to offer products and services of international standards for the global market.
- **New features of the 'Prime Minister's Employment Generation Programme' (PMEGP).**
  - **Firstly**, increase the maximum project cost to Rs 50 lakhs (from Rs 25 lakhs) for the manufacturing sector and Rs 20 lakhs (from Rs 10 lakhs) for the service sector.
  - **Secondly**, the inclusion of applicants from Aspirational districts & Transgenders in the Special Category applicants for availing higher subsidies.
  - **Thirdly**, handholding support is being provided to applicants/entrepreneurs through the engagement of banking, technical & marketing experts.

## GEOGLYPHS

Recently, experts and conservationists have raised concerns over the proposed location for a mega oil refinery in Barsu village of Ratnagiri district of Maharashtra.



### About Geoglyphs:

- Barsu sites in the Konkan region were added to a tentative list of UNESCO's world heritage sites and protected by the state archaeology department and the Archaeological Survey of India (ASI).

### What are geoglyphs?

- Geoglyphs are a **form of prehistoric rock art, created on the surface of laterite plateaus.**
- They are made by removing a part of the rock surface through an incision, picking, carving or abrading.
- They can be in the form of rock paintings, etchings, cup marks and ring marks.

### What is the significance of this prehistoric rock art?

- Clusters of geoglyphs are spread across the Konkan coastline in Maharashtra and Goa, spanning around 900 km. Porous laterite rock, which lends itself to such carving, is found on a large scale across the entire region.
- It has more than 1,500 pieces of such art, also called "**Katal Shilpa,**" spread across 70 sites.
- This is evidence of the continued existence of human settlements from the Mesolithic (middle Stone Age) to the early historic era.
- UNESCO's tentative world heritage list mentions **seven sites** with petroglyphs in **Ratnagiri district** — **Ukshi, Jambharun, Kasheli, Runde Tali, Devihsol, Barsu and Devache Gothane, one in Sindhudurg district –Kudopi village, and nine sites at Phansamal in Goa.**
- The figures depicted in the geoglyphs **include humans and animals** such as deer, elephant, tiger, monkey, wild boar, rhinoceros, hippopotamus, cattle, pig, rabbit, and monkey.
- They also include a high number of reptilian and amphibian creatures such as tortoises and alligators, aquatic animals such as sharks and sting rays, and birds like peacocks.

## MAHATMA GANDHI NATIONAL RURAL EMPLOYMENT GUARANTEE SCHEME (MGNREGS)

### Why in news?

- Digitally capturing the attendance of workers employed under the Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS) has been made universal by the Centre from January 1, 2023.

### About Mahatma Gandhi National Rural Employment Guarantee Scheme (MGNREGS):

- The National Rural Employment Guarantee Act (NREGA) was notified in September, 2005.
- In 2009, an amendment was made in the NREGA Act to change the name of the Act to Mahatma Gandhi National Rural Employment Guarantee Act (MGNREGA).
- Mandate:**
  - To provide **at least 100 days of guaranteed wage employment in a financial year** to every rural household whose adult members volunteer to do unskilled manual work.
- The Mahatma Gandhi National Rural Employment Guarantee Scheme (Mahatma Gandhi NREGS) was created as directed in Mahatma Gandhi NREGA and the means to implement the Act so that the guarantee comes into effect.
- MGNREGS is a Centrally-Sponsored Scheme i.e. the scheme is jointly funded by the Central government and the State governments.
- Concerned Ministry:** Ministry of Rural Development

### Salient Features of the Scheme:

- Legal Right to Work:**
  - The MGNREGA provides a legal guarantee for wage employment.
  - Every rural household has the right to register under MGNREGA.
  - Also, at least one-third of the beneficiaries of the scheme have to be women.
  - There are legal provisions for allowances and compensation both in cases of failure to provide work on demand and delays in payment of wages for work undertaken.

- **Demand-Driven:**

- It is a demand-driven programme where provision of work is triggered by the demand for work by wage-seekers.

- **Decentralized mode of implementation:**

- The State governments have powers to make rules and amend the concerned State scheme.
- Gram Panchayats (GPs) are to implement at least 50 per cent of the works in terms of cost.
- Plans and decisions regarding the nature and choice of works to be undertaken, the order in which each work is to be triggered, site selection etc. are all to be made in open assemblies of the Gram Sabha and ratified by the GP.

- **Annual Report tabled in the Parliament:**

- An Annual Report prepared by the Central Employment Guarantee Council (CEGC), on the outcomes of MGNREGA is required to be presented annually by the Central Government to Parliament.
- CEGS is a **statutory body** set up under Section 10 of the MGNREGA.
- It is chaired by the Union Minister for Rural Development.
- The MGNREGA covers the entire country with the exception of districts that have a hundred percent urban population.

### **Performance of the Scheme in last 3 years:**

- As per the data available on the scheme portal, 7.55 crore families availed the scheme during 2020-21.
- However, the number came down marginally to 7.26 families during 2021-22.
- In the current financial year 2022-23, 5.21 crore families have availed the scheme till November 26, 2022.

### **Challenges/Loopholes in the Scheme:**

- **Fund Misappropriation –**

- Over the last four years, Social Audit Units (SAU) under Rural Development Departments (RDD) across India have found **financial misappropriation of Rs 935 crore** under various schemes of the MGNREGA.
- Only about Rs 12.5 crore of this amount — 1.34% — has been recovered so far.

- **Delay in Payments –**
    - The Union Ministry of Rural Development considers wages paid once the FTO (Fund Transfer Order) is signed by the second signatory.
    - However, delays take place even in the processing of signed FTOs, for which the Management Information System (MIS) does not calculate compensation.
  - **Banking Puzzle –**
    - The rural banks are highly understaffed and thus always remain hugely overcrowded.
    - The workers normally have to visit the banks more than once to withdraw their wages.
    - Often, the workers do not get their wages during times of need due to the hassle and the cost involved in getting wages from the bank.
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## ANIMATION, VISUAL EFFECTS, GAMING AND COMICS (AVGC) PROMOTION TASK FORCE REPORT



### **Why in News?**

- The Animation, Visual Effects, Gaming and Comics (AVGC) Promotion Task Force has submitted its report to the government for consideration.

### **Background:**

- An announcement was made in the Union Budget 2022-23 for setting up an Animation, Visual Effects, Gaming and Comics (AVGC) Promotion Task Force to promote the AVGC sector in the country.
- In pursuance of this announcement, an AVGC Promotion Task Force was constituted in April 2022 by the Ministry of Information and Broadcasting.
- Headed by Secretary, Ministry of Information & Broadcasting, the Task Force had members from other ministries as well.

### **AVGC sector in India**

**What are the opportunities for AVGC sector in India?**



- AVGC sector has witnessed phenomenal growth in recent years.
- India's expanding AVGC sector has propelled the country into the global Top 5 in the gaming business.
  - India today contributes about \$2.5-3 billion of the estimated \$260-275 billion worldwide AVGC market.
- The number of online gamers increased by 8% between 2020 and 2021, and by 2023 it is predicted to reach 45 crores.
- The AVGC sector in India has the potential to capture 5% (\$40 billion) of the worldwide market by 2025, with yearly growth of 25-30% and the creation of approximately 1,60,000 new employments.

### **What are the factors responsible for the high growth of AVGC sector?**

- The demand has expanded with the unprecedented growth in kids broadcasting viewership, availability of low-cost internet access and growing popularity of OTT platforms.
- **Animation and Visual effects (VFX) sectors** have become an integral part of the media and entertainment industry.
- In the **entertainment sector**, movies like Hanuman, The Lion King, Life of Pie etc. are some of the movies that have become blockbusters at the Indian box office.
- Similarly, **use of animation and graphics in education sector** make teaching and learning processes more interesting.
- These trends have facilitated a decent growth of this sector in India.

### **What are the challenges faced by AVGC sector?**

- This sector is yet to be streamlined by the government through a **national policy framework** in order to build capacities and to enhance global positioning of AVGC sector in India.
- Although, it is growing at a faster rate, it has not yet been formalised.
- Legal uncertainty further creates a drag on this sector. Due to this, various State governments have dragged these companies to court over allegedly being akin to gambling.

- Eg., the Karnataka High Court struck down substantial provisions of the Karnataka Police (Amendment) Act, 2021, which prohibited online gambling and skill-based gaming platforms.

### What are the steps taken by the government?

- An announcement was made in the Union Budget 2022-23 for setting up an Animation, Visual Effects, Gaming and Comics (AVGC) Promotion Task Force.
  - In April 2022, the task force was constituted which submitted its report recently.
  - As part of the 75th anniversary of India's independence, the Union Information and Broadcasting Minister recently unveiled **Azadi Quest**, online educational mobile games.
  - It was created as part of the government's efforts to boost the animation, visual effects, gaming and comics (AVGC) sector.
  - The Government of India has prioritized this sector by identifying it as one with potential to become the torch bearer of “**Create in India**” and “**Brand India**”.
  - In 2021, the Ministry of I&B agreed to build a **Centre of Excellence in gaming** and other relevant sectors in collaboration with IIT Bombay.
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