

DAILY CURRENT AFFAIRS



11th December, 2023



S.NO. TOPIC

- 1. CAN CHATGPT, THE CHATBOT DEVELOPED BY OPENAI, REPLACE HUMAN THERAPISTS?
- 2. ARTICLE 370 ABROGATION UPHELD
- 3. PRELIMS POINTERS

CAN CHATGPT, THE CHATBOT DEVELOPED BY OPENAI, REPLACE HUMAN THERAPISTS?

SOURCE: THE HINDU

WHY IN NEWS?

- > A European Commissioner, Lilian Weng, **faced backlash for comparing her ChatGPT** conversation to therapy on social media.
- Controversy erupted due to her lack of therapy experience and the perceived promotion of ChatGPT for therapeutic use.

EVOLUTION OF AI IN MENTAL HEALTH:

Overview:

- ✓ Al-based therapeutic interventions date back to 1990, initially employing scripted procedures.
- Modern apps like Woebot Health and Wysa use advanced Al algorithms, boasting over a million downloads for mental health conversations.

ChatGPT's Advanced Capabilities:

New programs like ChatGPT excel in understanding human queries and providing realistic responses, surpassing previous Al models.

The Al-Healthcare
Market In Numbers

Al would have saved a whopping 150 Billion USD in healthcare.

The predicted compound annual growth rate of Al in healthcare is 45%.

Al-based healthcare startups have so far raised over 2.5 Billion USD

The global Al in the global Al in the startups have so far raised over 2.5 Billion USD

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Trained on vast internet text data, large language model (LLM) chatbots, including ChatGPT, engage users with different personas and draw conclusions from interactions.

Turing Test developed by The term Al was The first chatbot System was 1st AlM Expe

Potential as Human Providers' Assistants:

- ✓ LLM chatbots, acting as assistants for human providers, could enhance mental health services, especially for marginalized and severely ill individuals.
- ✓ Addressing the shortage of mental health professionals, these chatbots could streamline paperwork, allowing therapists more time for direct patient care.

EMYCIN developed by Al was 1st AIM System was Alan Turing "ELIZA" was System coined developed workshop developed developed 1950 1952 The first The first electronic "SUMEX-Machine industrial bot person "SHAKEY" Learning was "UNIMATE" was developed introduced created took place was produced Application of Deep FDA approved the DL cloud app CAD technology released by to endoscopy Introduced Amazon MANDY chatbot was introduced 2000 2014 2015 Decision "Siri" Development Development Applying AI to support system of DeepQA and introduced and of the Gastroenterology "DXPlain" Watson started integrated with "PHARMABOT and other field: by IBM i-phones

> Efficiency and Workforce Enlargement:

- ✓ ChatGPT and similar programs could **increase the mental health workforce efficiency** by handling documentation and reporting tasks.
- ✓ Offloading administrative burdens to machines might enlarge the mental health workforce by approximately 40%, addressing the shortage of professionals.
- Complexities of AI as Therapists:



- ✓ While ChatGPT proves effective as an assistant, using it as a standalone therapist raises complexities.
- ✓ Tim Althoff, a computer scientist, emphasizes that therapy involves more than inputting information into ChatGPT, highlighting the nuances of human interaction.

Applications in Supporting Peer Groups:

- ✓ Empathetic chatbots find utility in **peer support groups**, as demonstrated in **studies involving** apps like TalkLife and Koko.
- ✓ Users preferred empathetic chatbot-assisted messages, indicating the potential role of AI in enhancing peer support experiences.

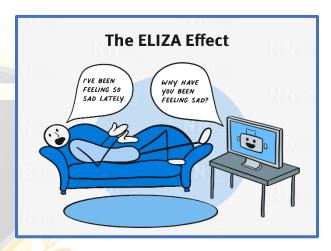
> Trust Dynamics and Human Preference:

- ✓ **Users develop trust with mental health chatbots quickly**, sometimes within days, compared to weeks with human therapists.
- Experimentation reveals that users may prefer the messiness of human interactions over botgenerated responses, indicating the importance of human involvement.

What is the ELIZA Effect?

Understanding the ELIZA Effect:

- ✓ The ELIZA Effect refers to the phenomenon wherein individuals attribute human-like emotions or capabilities to computer programs based on their responses to user input.
- Named after a 1960s computer program created by MIT professor Joseph Weizenbaum, ELIZA, despite its basic functionality, led users to perceive a meaningful interaction resembling human conversation.



ELIZA Effect in ChatGPT:

- ✓ When users engage with ChatGPT, they may experience the ELIZA Effect, believing that the AI model possesses a level of understanding and emotional resonance akin to human conversation.
- ✓ This effect occurs as **users interpret the Al's responses** as more sophisticated and emotionally nuanced than its actual capabilities.

Distinction from OpenAI:

✓ OpenAI's Role:

- OpenAI is an AI research lab that develops advanced language models, such as GPT-3.
- These models, including ChatGPT, are powerful tools for generating human-like text based on input.
- However, they lack true understanding, emotions, or consciousness.

Difference in Perception:

- ✓ While the ELIZA Effect may lead users to perceive ChatGPT as emotionally intelligent, it is crucial to recognize that OpenAI's models operate based on patterns and data, without genuine emotional comprehension.
- ✓ OpenAl focuses on advancing Al capabilities but emphasizes the distinction between Algenerated responses and true human understanding.
- OpenAI's Transparency:



- ✓ OpenAl promotes transparency about the nature of its models, encouraging users to understand that Al, including ChatGPT, generates responses by predicting the most likely next word or phrase based on vast datasets.
- ✓ It aims to avoid creating a misconception of true emotional understanding in the AI.

AI CHATBOTS VS. HUMAN THERAPISTS:

Aspect	Human Therapists	AI Chatbots
Tradition of Therapy	✓ Rooted in a longstanding tradition of human-centric interaction.	 Emerges as a novel addition, challenging traditional therapeutic norms.
Critical Relationship Factors	Emphasizes trust, warmth, empathy, and free communication.	 ✓ Faces the challenge of authentically replicating these critical factors.
Role of Therapeutic Relationship	✓ Pivotal for treatment success.	✓ Question marks over Al's ability to fully replace this human connection.
Ethical Considerations	 ✓ Potential concerns about losing unique qualities of human therapists. 	 Raises ethical questions regarding the depth and nature of human connection.
Emotional Element in Therapy	 ✓ Human therapists navigate complex emotions with nuanced understanding. 	✓ Challenges in authentically replicating the emotional intelligence of humans.
Role of Empathy	✓ Human therapists provide a depth of empathy, sharing emotions.	✓ Al may find it challenging to genuinely embody and express empathy.
Concerns about Loss of Humanity	✓ Some view the potential replacement of human connection as "a little sad."	✓ Raises concerns about the potential loss of a fundamentally human aspect.
Balancing Technological Advancements	 ✓ Acknowledges the need to leverage technology without compromising human qualities. 	✓ Offers innovative solutions but requires a delicate balance to preserve human aspects.
Unique Value of Human Therapists	 Recognition of irreplaceable value in bringing nuanced, impactful therapy. 	✓ While valuable, Al is seen as a tool, emphasizing human therapists' distinctive role.

RISKS AND CHALLENGES OF INTEGRATING AI IN THERAPY:

- > Trust and Accuracy Concerns:
 - ✓ The theory of automation bias raises concerns that **users might overly trust advice from AI**, even if it is incorrect or nonsensical.
 - ✓ This blind trust in Al-generated **responses poses a potential risk**, especially in the context of mental health where **accuracy and reliability are paramount**.

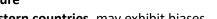


Limitations in Advice Quality:

- ✓ Chatbots, including ChatGPT, still have limitations in the quality of advice they can provide.
- ✓ They may overlook crucial information that a human therapist would identify as indicative of a problem.
- ✓ For instance, an AI might **not** appropriately respond to a severely underweight person seeking guidance on weight loss.

Biases and Cultural Sensitivity:

✓ There are concerns that AI programs, trained on literature primarily from wealthy, western countries, may exhibit biases.



- ✓ This could lead to misunderstandings or oversights in addressing cultural differences in the expression of mental illness.
- ✓ The risk is that AI might draw incorrect conclusions based on how a user communicates in their second language.

Potential Harmful Suggestions:

- ✓ A significant concern is the possibility of AI chatbots, including those not based on generative AI like Tessa, suggesting harmful actions such as discontinuing treatment or advocating self-harm.
- ✓ Instances like the National Eating Disorders Association's use of a chatbot that allegedly provided triggering weight-loss tips underscore the potential risks involved.

Regulatory and Ethical Challenges:

- ✓ The lack of clear regulations poses challenges for the integration of AI in clinical settings.
- ✓ The industry is in a state of uncertainty, awaiting government regulations to ensure ethical and safe use of AI programs like ChatGPT.

Confidentiality and User Data Concerns:

- ✓ There is limited public awareness about how tech companies collect and use user information fed into chatbots.
- ✓ The potential for **confidentiality violations raises concerns** about the **privacy and security** of user data, especially in the sensitive context of mental health.

For-Profit Prioritization and Accessibility:

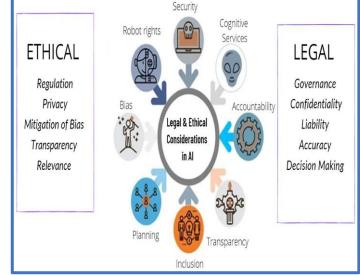
- ✓ The worry exists that for-profit chatbots may cater primarily to the "worried well," those who can afford therapy and app subscriptions.
- ✓ This raises questions about equitable access to mental health support, potentially leaving isolated individuals at greater risk without access to necessary resources.

Regulation and Industry Evolution:

✓ The industry is grappling with the need for clear regulations to ensure the reliability, accuracy, and safety of AI chatbots.

Empowering Users with Tools:

✓ The focus is on empowering a diverse group of individuals with AI tools, acknowledging that some therapy, even through innovative means, is better than none, given the challenges in meeting the demand for high-quality care.



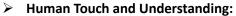


AI CHATBOTS AS SUPPLEMENTS, NOT REPLACEMENTS:

- Supplement, Not Substitute:
 - ✓ AI-powered mental health applications position themselves as supplements to human therapy services.
 - Consensus exists that AI chatbots should not replace traditional therapy but should complement the work of mental health care professionals.

Promising Tool in Mental Health:

- Al chatbots offer benefits such as immediate responses, accessibility, and affordability.
- ✓ They present a promising tool for mental health support.



- ✓ Despite their advantages, AI chatbots lack the human touch and understanding inherent in interactions with a human therapist.
- ✓ Emotional intelligence and the nuanced approach of human therapists are essential components.

Use as a Complement:

- ✓ It is emphasized that AI chatbots should not be viewed as replacements for human therapists.
- ✓ Instead, they **should** be considered as complementary tools, enhancing the overall mental health care experience.

Balance of Accessibility and Humanity:

All chatbots strike a balance by providing accessible and immediate support while recognizing the irreplaceable value of human interaction in therapy.

Affordability and Accessibility:

One of the strengths of Al chatbots is their affordability and accessibility, making mental health support more widely available.

> Integration into Mental Health Services:

✓ The consensus encourages the integration of AI chatbots into mental health services to augment and extend the reach of human therapists.

Recognition of Limitations:

✓ While **acknowledging the benefits**, the recognition of **AI chatbots' limitations** underscores the importance of **maintaining the human-centric aspect** in mental health care.

WAY FORWARD:

Embracing a Collaborative Future:

- ✓ Acknowledges the value of AI chatbots in healthcare, enhancing efficiency and supporting healthcare professionals.
- ✓ Advocates for a symbiotic relationship between AI chatbots and medical professionals.

Benefits of Collaboration:

- ✓ Points out the **potential benefits of AI chatbots**, especially in areas with **limited healthcare access**, providing education and disease management support.
- ✓ Rejects the notion of complete replacement, favoring a collaborative approach that leverages the strengths of both AI and human professionals.
- Integrated Healthcare Approach:





- ✓ Envisions an integrated approach to healthcare where AI chatbots and medical professionals play complementary roles.
- ✓ Emphasizes the combination of digital efficiency and human empathy for an optimized patient experience.

Journey into the Future:

- ✓ Highlights the need to focus on collaboration rather than replacement as the narrative for the future of medicine.
- ✓ Stresses the goal of leveraging AI and human expertise to enhance patient outcomes.

> Limitations of Complete Replacement:

- ✓ **Recognizes the potential advancements in AI** and **machine learning** but cautions against the remote possibility of entirely replacing medical professionals.
- ✓ Foresees the **integration of AI chatbots and medical professionals** into a collaborative healthcare approach.

> Factors Influencing the Collaborative Future:

- ✓ **Identifies key factors i**nfluencing the evolution of a **collaborative future, including technological advancements,** patient and provider acceptance, ethical considerations, and regulatory frameworks.
- ✓ Acknowledges the dependency on these factors for the realization of a collaborative healthcare model.

Priority on Patient Outcomes:

- Reiterates the paramount goal of improving patient outcomes and the quality of care in the digital age.
- Affirms that while AI chatbots are valuable supplements, they should not be viewed as complete substitutes for the irreplaceable role of medical professionals.



ARTICLE 370 ABROGATION UPHELD

SOURCE: INDIAN EXPRESS

WHY IN NEWS?

- A Constitution Bench, led by **CJI DY Chandrachud**, delivered the verdict on challenges to the abrogation of **Article 370** by the Central government in 2019.
- > The case was **heard for 16 days before the court reserved its judgment** on September 5.
- The verdict addresses a **historical and contentious issue** related to the **special status of Jammu and Kashmir**, its accession to India, and the **subsequent abrogation of Article 370**.

VERDICT HIGHLIGHTS:

- Sovereignty of Jammu and Kashmir:
 - ✓ The court ruled that J&K did not retain any sovereignty after accession to India in 1947.
 - Despite the erstwhile ruler's proclamation, subsequent proclamations affirmed integration, akin to other princely states.
 - ✓ CJI DY Chandrachud said that

 Jammu and Kashmir held no
 internal sovereignty after accession
 to India.
 - He said there was no prima facie case that the President's 2019 orders were mala file or extraneous exercise of power.



- ✓ The court held Article 370 as a temporary, transitional provision based on historical context and its placement in Part XXI of the Constitution.
- > Abrogation of Article 370:
 - ✓ Upheld both presidential proclamations of August 2019, justifying the abrogation to counter persistent challenges, particularly from Pakistan.
 - ✓ The court referred to the **1994 'SR Bommai v Union of India'** ruling **to validate the President's** actions during President's rule.
- Restoration of Statehood:
 - ✓ The Centre was directed to restore statehood, and Legislative Assembly elections were recommended to be held.

CENTRAL GOVERNMENT'S ARGUMENTS:

- No Special Status:
 - ✓ J&K had no special status from the beginning; the draft accession agreement was the same for all princely states.
- End of Psychological Duality:
 - ✓ Abrogation ended psychological duality, granting fundamental rights to a larger population.
- > Self-Extinguishing Legislation:
 - ✓ Article 370 was **not a privilege** and **could be taken away**; it was a self-extinguishing legislation.
- > Parliamentary Role in President's Rule:





 During President's rule, Parliament exercises the role of the state legislature, applicable to all states.

> Justified Abrogation:

Done to counter consistent challenges, not a knee-jerk decision; policy considerations involved.

> Temporary Union Territory Status:

J&K as a Union Territory is temporary; statehood will be restored over time, while Ladakh remains a Union Territory.

End of Integration Purpose:

✓ Article 370's purpose for national integration in J&K was over; making it permanent is unconstitutional.

> Federalism and Basic Structure:

- ✓ Federalism is **part of the Constitution's basic structure**, but **Article 370 has no place**; making it **permanent violates the Constitution**.
- ✓ Sovereignty with Union Government: Legal sovereignty rests with the Union government; Article 370 can be removed without restrictions.

PETITIONERS' ARGUMENTS AGAINST ABROGATION:

Permanent Article 370:

✓ Became permanent after the Constituent

Assembly dissolved in 1957; cannot be repealed without its recommendation.

Colourable Exercise of Power:

Article 370 repealed indirectly by amending Article 368, substituting 'Constituent Assembly' with 'Legislative Assembly.'

Implied Restrictions During President's Rule:

 Proclamation suspending the Legislative Assembly implies restrictions on Article 370(3).

Misuse of Article 3 Powers:

Central government's powers under Article 3
 cannot change a state into a Union Territory
 without state consent.

Absence of Merger Agreement:

No merger agreement executed; J&K chose to be with India under Article 370's constitutional promise.

ARTICLE 370 OPINION DIVIDED

FOR

Article 370 was a temporary provision of Constitution

Special privileges were temporary, cannot confer rights

In opposition with Article

14 which guarantees equality
Can be revoked through Presidential order

AGAINST

LADAKH

The same provision of Article 370 cannot be used to dilute it

Parliament cannot replace state legislature with the governor

Not seeking state legislature's nod is against spirit of consultation SC precedents cite

Parliament's approval for abrogation

KEY RECOMMENDATIONS OF SUPREME COURT'S ARTICLE 370 VERDICT:

Restoration of Statehood:

- ✓ The Supreme Court directed the Centre to restore statehood to Jammu and Kashmir.
- ✓ This recommendation aims to reinstate the region as a full-fledged state, indicating a move towards normalcy.

Holding Legislative Assembly Elections:

√ The court recommended holding Legislative Assembly elections in Jammu and Kashmir.

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 Conducting elections is a crucial step in reestablishing democratic governance and representation in the region.

> Truth and Reconciliation Commission:

- ✓ Justice Kaul suggested the creation of a Truth and Reconciliation Commission in Jammu and Kashmir.
- ✓ This commission aims to address and acknowledge alleged violations committed by the State and its actors, promoting transparency and accountability.



Acknowledgment of Internal Sovereignty Loss:

- ✓ CJI DY Chandrachud emphasized that Jammu and Kashmir held no internal sovereignty after accession to India.
- ✓ This acknowledgment clarifies the legal status of Jammu and Kashmir in the context of internal sovereignty.

CHALLENGES OF SUPREME COURT'S ARTICLE 370 VERDICT:

- Implementation Hurdles:
 - Executing the restoration of statehood and organizing elections might face logistical and administrative challenges, requiring careful planning and execution.
- Political and Social Reintegration:
 - Reintegrating Jammu and Kashmir politically and socially into the Union, post the Article 370 abrogation, may encounter resistance and necessitate comprehensive strategies for inclusion.
- Security Concerns:
 - ✓ The region has experienced security concerns, and the restoration process must consider maintaining law and order while ensuring the safety of the residents.
- Truth and Reconciliation Commission Challenges:
 - Establishing a Truth and Reconciliation Commission involves navigating complex issues, including obtaining cooperation, ensuring impartiality, and addressing the sensitivity of historical grievances.
- Public Sentiment:
 - Public sentiment in Jammu and Kashmir is diverse, and any decisions made in the process of restoration and establishment may need to consider and manage varying opinions.

WAY FORWARD:

- Implementation Roadmap:
 - ✓ Develop a comprehensive and detailed roadmap for the restoration of statehood and the conduct of Legislative Assembly elections in Jammu and Kashmir.
 - ✓ **Outline specific timelines and milestones** for the phased implementation of the recommendations.
- Stakeholder Consultation:
 - Engage in meaningful consultations with various stakeholders, including political representatives, local communities, and civil society, to address concerns and ensure inclusive decision-making.
- Security and Law Enforcement:
 - ✓ Prioritize **security measures to maintain law and order** during the transition process.



✓ Collaborate with law enforcement agencies to address any potential challenges and ensure the safety of residents.

Constitutional and Legal Reforms:

- ✓ Undertake **necessary constitutional and legal reforms** to facilitate the restoration of statehood in compliance with the Supreme Court's directives.
- ✓ Ensure that the **legal framework aligns with the evolving political status** of Jammu and Kashmir.

Electoral Preparedness:

- ✓ Work towards creating an environment conducive to free and fair Legislative Assembly elections.
- ✓ **Facilitate the functioning of election-related institutions** and ensure the active participation of political parties and candidates.

Public Awareness and Communication:

- ✓ Conduct awareness **campaigns to inform the public about the changes**, emphasizing the constitutional and legal aspects.
- ✓ Maintain transparent communication to address any misinformation and build public confidence.





PRELIMS POINTERS:

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DISCRIPTION

Green Turtle

WHY IN NEWS?

- * Rising global temperatures could expand the nesting range of green turtles in the Mediterranean Sea, with a potential increase of over 60% points.
- A study in Scientific Reports suggests that, under the worst-case climate scenario, nesting areas may extend westward, covering much of the North African, Italian, and Greek coastlines.

GREEN TURTLE CHARACTERISTICS

- **❖** Size and Herbivorous Diet:
 - Green turtles are one of the largest sea turtles and unique as herbivores among various species.



- Named for the greenish hue of their cartilage and fat, not their shells.
- In the Eastern Pacific, those with darker shells are locally referred to as black turtles.
- ❖ Habitat:
 - Primarily inhabit tropical and subtropical waters.
- Migration Patterns:
 - Like other sea turtles, green turtles migrate extensively, traveling long distances between feeding grounds and their hatching beaches.

THREATS AND CONSERVATION STATUS

- Endangered Classification:
 - Classified as endangered due to various threats.

THREATS

- Overharvesting of Eggs:
 - Eggs are targeted and collected excessively.
- **Adult Hunting:**
 - Adults are hunted.
- Fishing Gear Incidents:
 - Often caught unintentionally in fishing gear.
- Loss of Nesting Sites:
 - Threatened by the diminishing availability of nesting beach sites.

Honeyguide Birds

WHY IN NEWS?

African honeyguide birds display an understanding of culturally specific signals from local human honey hunters, indicating a unique form of cultural coevolution between the species.

ABOUT HONEYGUIDE BIRDS

Species Identification:

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The greater honeyguide, a small African bird species, is recognized for

its involvement in a cooperative relationship with humans.

- Guiding to Bee Nests:
 - Honeyguides lead humans to wild bee nests, showcasing a unique behavior that benefits both species.



Humans, guided by these birds, open the bee nests
 to collect honey, while the honeyguides consume the beeswax.

- Cultural Tradition:
 - The successful calls and responses between humans and honeyguide birds have been preserved within local communities for generations.

CONSERVATION SIGNIFICANCE

Understanding and preserving such cultural coevolution and cooperation between species are essential for the conservation of unique ecological interactions and biodiversity.

Universal Declaration of Human Rights

WHY IN NEWS?

- Seventy-five years ago, on December 10, the UN General Assembly approved the Universal Declaration of Human Rights, marking a crucial moment in international history.
- As the declaration turns 75, U.N. human rights chief Volker Türk emphasizes that, despite the conflicts and crises of today, human rights have not failed.

ABOUT UNIVERSAL DECLARATION

- The declaration consists of a preamble and 30 articles outlining fundamental rights and freedoms.
- Article 1 asserts that all human beings are born free and equal in dignity and rights.
- Article 2 declares entitlement to rights and freedoms without discrimination based on race, color, sex, language, religion, or other factors.
- tl addresses rights such as life, liberty, security, freedom from slavery, torture, and the right to seek asylum.





Emphasizes equality before the law, the right to a fair trial, freedom of religion, opinion, expression, peaceful assembly, and education.

WHY AND HOW IT WAS DRAWN UP

- Born out of the "never again" sentiment after World War II and the Holocaust.
- Drafted by a committee chaired by Eleanor Roosevelt and members from eight countries.
- Over 50 U.N. member countries participated in the final drafting in 1948, and it was approved unanimously.

WHAT DID IT ACHIEVE

- Although not legally binding, its principles influenced laws globally and formed the basis for international human rights law.
- Inspired over 70 human rights treaties globally and regionally.
- Inspired movements against colonization, apartheid, and freedom struggles worldwide.

THE SITUATION NOW

- The 75th anniversary is marked by challenges to human rights in conflicts like Israel-Hamas, Russia's war in Ukraine, and internal conflicts in Myanmar and Sudan.
- UN Secretary-General Antonio Guterres acknowledges misuse and abuse of the declaration for political gains but emphasizes its importance.
- Despite challenges, the declaration is seen as proof that a global vision for human rights is possible.