Artificial Intelligence in Journalism – Fact Checking with Gemini

Introduction

• Journalism is fundamental for sustainable development, human rights protection and democratic consolidation. Any deterioration in the Quality of Journalism, will reduce trust on the established institutions thereby, paving way for civil unrest & Violence.

Artificial Intelligence & Responsible Journalism

• New Technologies like Artificial Intelligence, have to be used in improving journalism, to ensure peace & prosperity.

Qualitative Analysis of Journalism

• Let's go through civil unrest events in the last five years fuelled by fake news & misinformation, to understand its impact on the society.

Brazil (2022): Misinformation during the presidential election intensified political divides. Fake claims about electoral fraud sparked protests and clashes between supporters of rival candidates



 Brazil has significantly improved its preparedness to combat fake news since its 2018 election. Initiatives include professional fact-checkers, partnerships with social media platforms, and tech advancements like bots and transcription tools in Portuguese. The Superior Electoral Court (TSE) has driven efforts, forming an Anti-Disinformation Committee and enacting measures against false electoral narratives. Influencers are also actively promoting accurate information. However, challenges like hate speech remain prominent. Despite the federal government's limited involvement, these efforts mark progress in protecting democracy. For details, visit <u>Americas Quarterly</u>



• The Reuters Institute article highlights Brazil's ongoing battle with misinformation during its elections, particularly under President Jair Bolsonaro's tenure. Despite progress, such as platform agreements to limit false content and initiatives like Democracia em Xeque, disinformation remains widespread. Claims attacking electronic voting systems and spreading conspiracy theories threaten electoral integrity. Researchers stress the increasing sophistication of misinformation and the need for stronger countermeasures. Social media remains a major channel for such activities, with platforms like YouTube facing criticism for lack of transparency. The issue poses long-term challenges for democracy. For details, visit <u>Reuters Institute</u>



The ODI article discusses the pervasive impact of misinformation during Brazil's 2022 elections. Despite efforts by the judiciary, such as digital literacy programs and rapid takedown measures, the scale of disinformation—amplified through social media—remains a significant challenge. Judicial responses, while impactful, are limited in reach and face technological and societal hurdles, such as encrypted platforms and public mistrust in institutions. Broader, multi-stakeholder efforts are essential to counter misinformation globally. For details, visit <u>ODI Global</u>

Myanmar (2021): Misinformation played a role in inciting ethnic violence. False narratives spread on social media exacerbated ethnic tensions, particularly against the Rohingya community



- Amnesty International's report accuses Facebook's algorithms of amplifying hate speech against the Rohingya in Myanmar, fuelling violence and atrocities. The platform allegedly failed to act against harmful content, despite warnings from human rights groups. Amnesty calls for Meta to provide reparations to Rohingya communities, emphasizing corporate responsibility in preventing human rights abuses facilitated by their technologies. For details, visit <u>Amnesty</u> <u>International</u>
- The article highlights Facebook's role in enabling hate speech and incitement against the Rohingya in Myanmar, contributing to genocide. It criticizes Facebook's profit-driven algorithms for amplifying divisive content while neglecting necessary safeguards. The lack of accountability for these actions is underscored, with legal frameworks struggling to address such corporate complicity in human rights abuses. The piece advocates for stronger mechanisms to hold tech companies accountable. For details, visit <u>Systemic Justice Project</u>
- The article examines how misinformation and hate speech exacerbate Myanmar's ethnoreligious tensions, particularly targeting marginalized groups like the Rohingya. Social media platforms are central in spreading inflammatory content, which fuels conflict and undermines peacebuilding efforts. Despite some measures to address these issues, weak governance and lack of accountability allow harmful narratives to thrive. Strengthening digital literacy, fostering accountability, and promoting inclusive narratives are critical to countering these threats to stability and peace. For details, visit <u>US Institute of Peace</u>

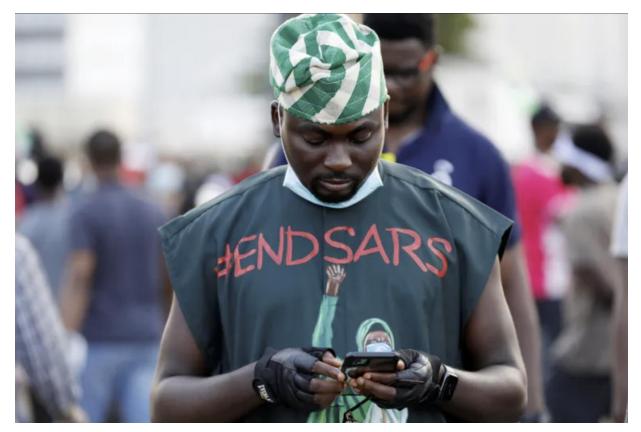
Nigeria (2020): Fake news circulated about the #EndSARS protests against police brutality, with false reports portraying protesters as violent, leading to confusion and further escalations.



- The #EndSARS protests in Nigeria in 2020, sparked by widespread police brutality, became the subject of misinformation, with false claims that protesters were violent and engaging in criminal activities. Here's a timeline of key events:
 - October 3, 2020: The protests began after a viral video showed police brutality by the Special Anti-Robbery Squad (SARS).
 - October 6-10, 2020: Protests spread across major cities in Nigeria.
 - October 20, 2020: The situation escalated when the Nigerian Army reportedly opened fire on peaceful protesters at Lekki Toll Gate in Lagos.
 - October 21-23, 2020: Fake news spread, portraying the protesters as violent. The misinformation led to confusion and public unrest, with claims of looting and armed confrontations.
 - October 22, 2020: Reports of shootings and violent confrontations spread through social media, further escalating the situation.
 - This misinformation fuelled clashes, heightened fear, and led to violent responses from security forces, exacerbating the overall crisis.
- Social media played a vital role in organizing and raising awareness, that led to international condemnation on usage of excessive force against peaceful demonstrators. For details, visit <u>DW</u>



The article highlights how Nigerians used social media to organize and amplify the #EndSARS protests against police brutality. Social media platforms like Twitter and Instagram played a crucial role in mobilizing young Nigerians, sharing firsthand accounts of police abuse, and gaining international attention. Despite government attempts to limit online communication, digital tools helped create global awareness of the issue, allowing protesters to bypass censorship and challenge authority. The protests marked a significant moment for activism in Nigeria, driven by the power of social media. For details, visit <u>Aljazeera</u>

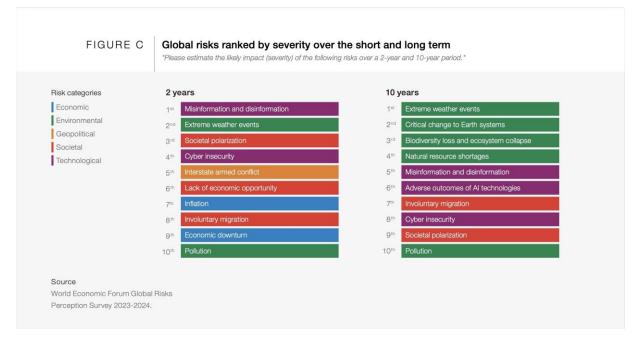


Quantitative Analysis of Journalism

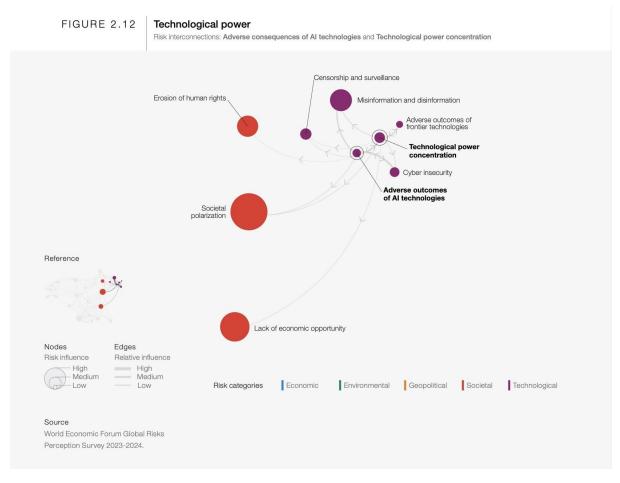
• Fake news and misinformation are significant global challenges with widespread social and economic impacts. Here are key findings from global think tanks and organizations:

- Prevalence: Research by Ipsos indicates that 86% of global internet users have been exposed to fake news, with 67% encountering it on platforms like Facebook. Alarmingly, nearly 90% of those exposed to fake news believed it to be real at least once. For details, visit <u>Ipsos CIGI</u>.
- Health Impact: Misinformation, especially during crises like the COVID-19 pandemic, has been shown to worsen health behaviours. The WHO reported that the "infodemic" fuelled vaccine hesitancy, reliance on unverified treatments, and distrust in public health measures, leading to measurable harm. For details, visit <u>WHO</u>
- Political and Social Effects: According to the World Economic Forum, fake news disrupts political discourse, erodes trust in institutions, and fosters polarization. The amplification of false narratives often leads to civil unrest and undermines democracy.
- Economic Cost: Fake news also incurs significant economic costs. A 2019 study estimated the global cost of misinformation at \$78 billion annually, encompassing impacts on businesses, healthcare systems, and productivity. For details, visit <u>ZDNet</u>
- Public Trust and Behaviour: Exposure to fake news reduces trust in media and governments. Surveys show that 40% of respondents trust traditional media less due to misinformation, and many have altered their online behaviour, such as reducing social media use or actively fact-checking news.

World Economic Forum



• World Economic Forum ranked Misinformation & Disinformation as the most severe technological risk in short term with rank 1 as well as in long term with rank 5.



The Current state of Misinformation & Disinformation, is poised to scale further with the help
of AI, to deteriorate Journalism & democratic consolidation even more. Hence, Efforts to
combat fake news include educational initiatives, stricter platform regulations, and
technological solutions like AI-driven fact-checking, but challenges remain in identifying and
managing misinformation across diverse digital landscapes. These findings highlight the urgent
need for coordinated global actions to mitigate this pervasive issue.

Reuters - Oxford

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People agreed false or misleading	information, harassment, and	other issues were 'big problems' across many p	latforms	
Percentage in each country who think the following are proble				
False or misleading information				
Brazil	India	UK	US	
Facebook 76%	49%	63%	64%	
Google 73%	45%	41%	40%	
WhatsApp 79%	50% 51%	30%	29% 40%	
YouTube 73%	51%	41%	40%	
Harassment on platform				
Brazil	India	UK	US	
Facebook 77%	48%	59%	54%	
WhatsApp 79%	48%	30%	26%	
YouTube 73%	48%	35%	33%	
Using data about people irresponsibly Brazil	India	UK	US	
Facebook 75%	49%	58%	59%	
Google 73%	46%	43%	43%	
WhatsApp 77%	50%	32%	27%	-
YouTube 72%	50%	37%	38%	
Prioritising certain political views				
Brazil	India	ик	US	
Facebook 59%	45%	51%	57%	
Google 56%	42%	36%	36%	
YouTube 57%	46%	36%	37%	
Censoring content				
Brazil	India	UK	US	
Facebook 58%	44%	44%	52%	
Google 55%	43%	34%	35%	
WhatsApp 60%	46%	23%	24%	
YouTube 56%	45%	33%	34%	
Q22, Q23, Q24, and Q25. How much of a problem, if at all, do you 2,204, US = 2,112. WhatsApp: Brazil = 1,980, India = 1,885, UK = 2	think each of the following are when it comes to [Facebook 2,185, US = 2,004. YouTube: Brazil = 1,951, India = 1,858,	(/Google/WhatsApp/YouTube)? Bases exclude those who never heard of the platform: Faceboo UK = 2,192, US = 2,112. Note: Includes those who said these are 'A very big problem' or 'A mo	k: Brazil = 1,970, India = 1,826, UK = 2,202, US = 2,109. Googl derately big problem'.	e: Brazil = 1,956, India = 1,837, UK =
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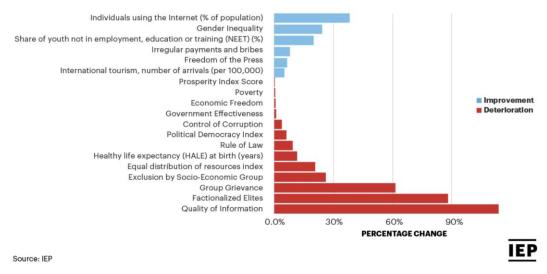
• Survey results from Reuters signifies the Trust on Online Platforms. Hence, it is important to use AI for social good by design, to shape Journalism for a better future.

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Proportion 2017–2022 Selected markets		metimes or	often activel	y avoid the	news															
38% All country	/ average (was 2	9% in 2017)																		
0%	5%	10%	15%	20%	25%	30%	39	% 40		2017 2 019	2022	55%	60%	65%	70%	75%	80%	85%	90%	95%
Brazil					27%		34%				54%									
ик					24%		35%													
USA								38%	46	% 										
						30%		413	42%											
Ireland		_	_		_		2%	413	8											
Australia						30% 29%		415	3											
France						29%	33%	3												
Spain					26%		33%													
Italy						28%	35%	3												
					24%		34%													
Germany					25%	29%														
Finland			17%																	
Denmark			14% 15%	20%																
Japan	67	11%																		
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• The survey shows that the raising mistrust on news institutions from 2017 to 2022, which is uniform in several different demographics around the world.

Institute for Economics & Peace

Percentage change in Positive Peace indicators, United States, 2009–2019



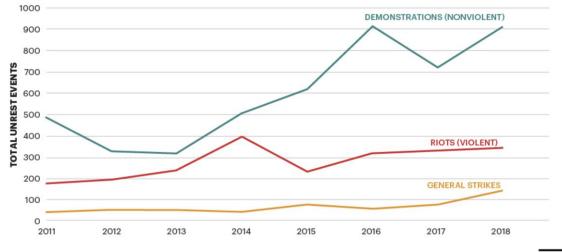
In the last decade, the **Quality of Information** indicator recorded the largest deterioration in the US. Quality of Information is one of eight <u>Positive Peace indicators</u>, which declined by 113.6% in the US.

Major cause of this declining impact on peace can be derived from the rate of change of
positive peace indicators of a country, when considering the extremely impacted Positive
peace indicators from 2009 to 2019, Even though Percentage of population using internet has
increased. Quality of information, reaching people has decreased significantly, which
emphasize on the importance of streamlining information, supported by strict, consistent &
robust fact-checking practices.

Civil Unrest from 2011 to 2018:

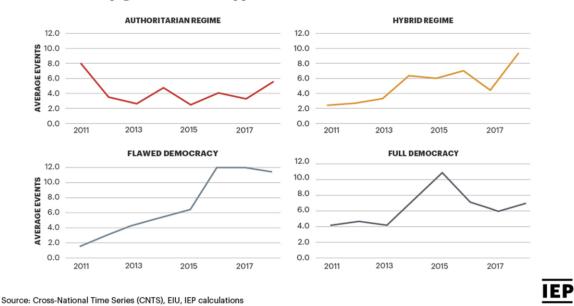
- 64% of protests were nonviolent demonstrations
- 6% were general strikes
- 30% were classified as riots
- 4,700 nonviolent demonstrations
- 2,200 riots (violent demonstrations)

Global trends in civil unrest, 2011–2018



Source: Cross-National Time Series (CNTS), IEP calculations

IEP



Civil unrest by government type, 2011 to 2018

The rate of civil unrest events per country increased tenfold in flawed democracies between 2011 to 2018.

 Civil Unrest Around the World has Doubled in Last Decade, Hence, restoring trust in the process of democratic consolidation is important for peace. For details, visit <u>Vision Of</u> <u>Humanity</u>

Guidelines from Analysis

• The number of civil unrest events due to Fake News & Misinformation is on the rise, Hence, it has to be handled with responsibility & wisdom, to ensure journalistic free-speech emphasizing accountability as well as firm crystal-clear fact checks emphasizing transparency. For Details, visit <u>CNN</u> and <u>World Economic Forum</u>

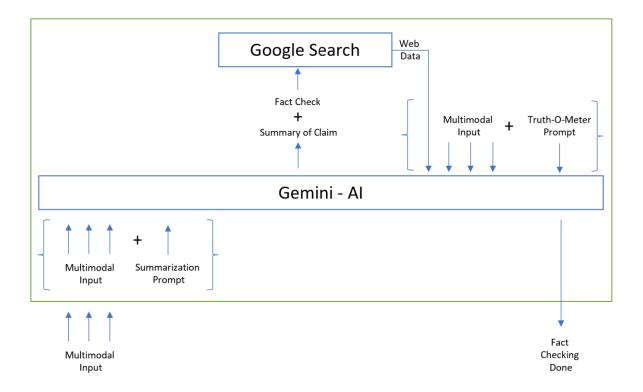
Social Good by Design

Approach

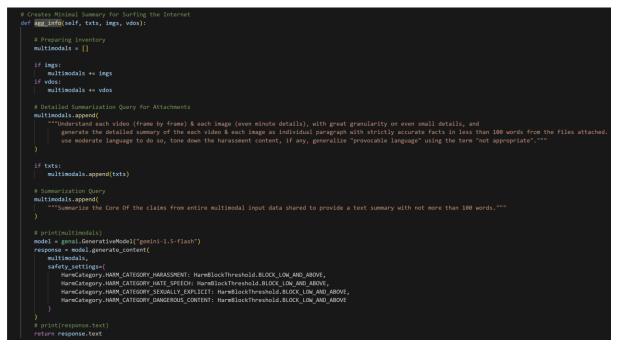
 Since AI has grown to an extend of understanding Multimodal long-context content with ease, we shall have an agentic AI tool to assist journalists for their fact checking tasks, to improve their productivity in handling multiple disinformation campaigns at once, so that instead of debunking the claims all by themselves, they have to verify the Truth-O-Meter score calculated by AI based on its reasoning capability, merely acting as moderators.

Architecture

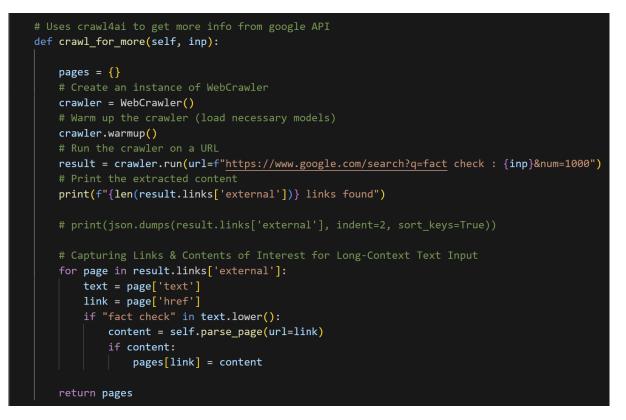
• With Multimodal & Long-Context Capabilities of Artificial Intelligence models, like Gemini coupled with open web data, from google, an assistive tool for Fact checking is possible in reality, to help journalists in Responsible Journalism handle the surge in misinformation & disinformation campaigns, to sustain Economics & Peace.



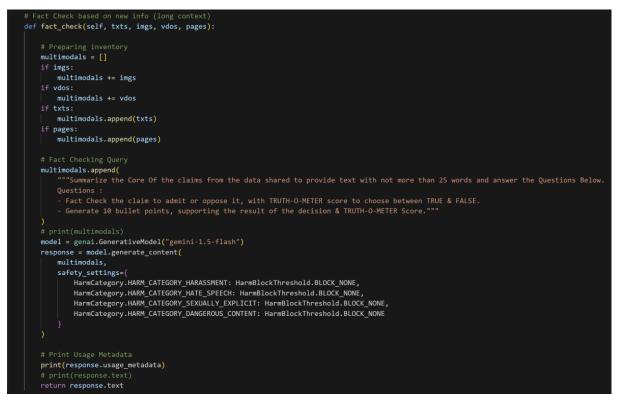
- Let's walk through the Architecture / Process flow of Proof-Of-Concept Assistive tool developed with Gemini AI.
 - Multimodal data representing the claim is fed into Gemini AI to summarise the core of the claim to search google.



- o Google Search returns all relevant site results for the search string input.
- Crawl4AI curates the sites contents under fact checking sites as long-context input for further analysis.



 Multimodal data representing core claims, Summary Generated by Gemini Model, Long-Context Content curated by Crawl4AI, together used with a Truth-O-Meter Prompt to admit or oppose the claim with reasons.



 Since it is designed as an assistive tool, journalists can moderate the content manually, as per need, thereby adhering to the standards of responsible journalism.

Usage

```
#!/usr/bin/env python3
# -*- coding: utf-8 -*-
"""
Filename: fact_checker.ipynb
Author: Sathiyanarayanan Palani
Date: 2024-11-15
Python Version: Python 3.11.6
Version: 1.0
Description:
    Assistive Fact Checking Tool for responsible Journalists,
    based on Gemini AI & Crawl4AI.
License: Apache 2.0
Contact: sathiyanarayanan396@gmail.com
Dependencies: os, time, pillow, crawl4ai, google.generativeai
"""
```

 Assistive tool is available in the form of Kaggle notebook for usage, For details, visit <u>Kaggle</u> <u>Notebook</u>

Results

 The results are impressive, when we consider the accuracy & consistency of the Gemini Model, in admitting or opposing the Claim. But among the ten reasons it generates, one or two might be attributing to a different version of the same claim, since some claims exists in many versions, with unique cultural appropriations for each.

Outputs

Chinese Robots performing Indian classical dance (Fake)

 Inputs have text used in WhatsApp & Facebook posts, and some videos & images related to them.



 Usage metadata: Prompt token count: 107954, candidates_token_count: 258, total_token_count: 108212 The claim is that a viral video shows Chinese-made robots performing Indian classical dance at Shanghai Disneyland.

Answers:

- Fact Check: FALSE
- TRUTH-O-METER Score: FALSE (red)

Supporting Bullet Points:

- The viral video shows two Indian classical dancers, Sophia Salingaros and Isha Parupudi, performing Bharatanatyam.
- The video was originally uploaded on YouTube in 2017 on a channel dedicated to Indian classical dance.
- The dancers are based in the US, not China.
- There's no evidence of robot dancers performing at Shanghai Disneyland.
- Shanghai Disneyland's official website lists no attractions or performances featuring robot dancers.
- The claim about the waiting time and ticket price is also unsubstantiated.
- The video has been circulating with a false claim for several years.
- The video's description clearly identifies the dancers as Sophia Salingaros and Isha Parupudi, both known Indian classical dancers.
- There are no records of robot dancers performing at Shanghai Disneyland, and the theme park's website does not list any such attraction.
- The claim about the waiting time and ticket price is unsupported by any evidence.
- Since, there is multiple versions of the fake news, in different countries, the output might not get same supporting bullet points all the time, but it is identifying the distinction between tailored fake news & true facts based on available long-context web data, to return a constant Truth-O-Meter Score.

Spinach is taught to send emails (Real)

• Inputs have couple of images & a small input text on the news, since the code can look for publicly available data, to create summaries, inputs as short as shown below, is also enough for efficient use of the assistive tool



• Usage metadata: Prompt token count: 611, candidates_token_count: 212, total_token_count: 823

Researchers have taught spinach to send emails.

TRUTH-O-METER SCORE: TRUE

Supporting Bullet Points:

- Scientists at MIT have developed a technology called "Plant Nanobionics" to enable plants to monitor their environment.
- This technology involves inserting carbon nanotubes into the plant's vascular system.
- These nanotubes can detect changes in the plant's environment, such as the presence of explosives or pollutants.
- The nanotubes then send wireless signals to a nearby computer.
- This signal can be used to trigger an alarm or even send an email.
- The research was published in the journal Nature Nanotechnology in 2016.
- The technology has the potential to revolutionize environmental monitoring and agriculture.
- For example, spinach can be used to detect the presence of explosives in the soil.
- The technology can also be used to monitor the health of crops and identify pests or diseases.
- This research is a significant step towards creating a more sustainable and environmentally friendly future.
- Even though some minor information of how the computer reads the plant leaves with infrared camera in actual fact is replaced with nanotubes sending wireless signal in the supporting bullet points, the tool shall be able to identify such an event happening in history like when & where it took place.

New ₹2000 notes have nano chip (Fake)



 Usage metadata: Prompt token count: 24855, candidates_token_count: 390, total_token_count: 25245

A new 2000 rupee note with an embedded nano-GPS chip has been introduced to combat black money. This chip does not need any power source, and can be used to track the location of the note, even if it is buried 120 meters underg
• TRUTH-O-METER: FALSE
Here are 10 bullet points supporting the TRUTH-O-METER decision:
 No Independent Verification: There is no independent scientific or technical verification to support the claim that the new 2000 rupee notes have an embedded nano-GPS chip. No Official Confirmation: The Reserve Bank of India (RBI) or the Indian government has not officially confirmed the existence of such a chip. Scientific Challenges: Tracking a nano-GPS chips To 20 meters underground would require extraordinary signal penetration capabilities, exceeding current technological limits. Power Source: Nano-GPS chips typically require a power source to operate, making it implausible for them to function passively in a currency note. Signal Reflection: While signal reflection: Would'nt provide accurate location information, especially from deep underground. Privacy Concerns: Such a tracking capability equire significant privacy concerns for citizens. Implementation Challenges: The widespread implementation of nano-GPS tracking in currency notes on a national scale would be a massive logistical and technical undertaking. False Information Spread: This claim appears to be a fabricated story, likely spread for sensationalism or political purpose. Similar Claims in the Past: Similar claims abolt GPS-enabled currency notes have suffaced in other countries in the past, but none have been verified. Focus on Digital Solutions: The India government's focus on digital payment systems like BHIM app suggests they are prioritizing more effective methods to combat black money.

China makes plastic rice (Fake)



• Usage metadata: Prompt token count: 26599, candidates_token_count: 344, total_token_count: 26943



Delhi teen finds place on UN green list (Real)



• Usage metadata: Prompt token count: 634, candidates_token_count: 253, total_token_count: 887

A Delhi teenager has been recognized by the UN for his innovative method of turning glass into sand for construction purposes.

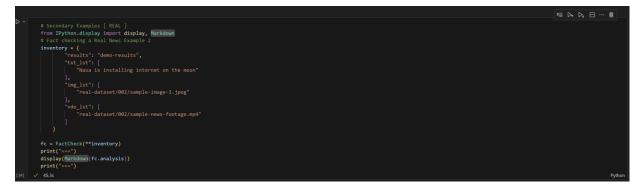
Questions:

- Fact Check the claim: TRUE
- TRUTH-O-METER Score: 9/10

Supporting Bullet Points:

- The image shows a young man interacting with a recycling machine for glass.
- The text clearly mentions the Delhi teenager's achievement and his method of turning glass into sand.
- The use of the converted sand for construction purposes is stated explicitly.
- The teen being listed in Forbes for this achievement further validates the claim.
- The UN Green List recognition is a significant honor, indicating the validity of the achievement.
- The existence of a complete glass recycling line implies a viable and scalable solution.
- The image of the sand produced from glass supports the claim of successful conversion.
- The presence of a company logo in the image suggests potential commercial viability.
- The mention of the teen's achievement being recognized on a global platform (Forbes) adds credibility.
- The consistent use of "he" and "his" in the text further reinforces the fact that the teen is a real person and not a fictional character.

NASA is installing internet on the moon (Real)



 Usage metadata: Prompt token count: 43717, candidates_token_count: 239, total_token_count: 43956

 TRUTH-O-METER: TRUE Nokia has indeed partnered with NASA to build the first-ever cellular network on the Moon. The network will be launched in late 2023 via a SpaceX rocket. The network will be powered by an antenna-equipped base station stored in a Nova-C lunar lander. The lander will be accompanied by a solar-powered rover. An LTE connection will be established between the lander and the rover. The infrastructure will land on the Shackleton Crater, which lies along the southern limb of the Moon. The technology is designed to withstand the extreme conditions of space.
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• The infrastructure will land on the Shackleton Crater, which lies along the southern limb of the Moon.
• The technology is designed to withstand the extreme conditions of space.
The service will be used for NASA's Artemis 1 mission.
• The mission intends to establish humans on the Moon for the first time since the Apollo 17 mission in 1972.
The aim is to show that terrestrial networks can meet the communication needs of future space missions.

Eight-year-old girl pulls medieval sword from lake (Real)



 Usage metadata: Prompt token count: 23033, candidates_token_count: 179, total_token_count: 23212

An eight-year-old girl found a sword in a Swedish Lake.

TRUTH-O-METER: TRUE

- This story was featured in a news report from Eurovision.
- The sword was found in the lake in Sweden.
- The sword is estimated to be from the 5th or 6th century.
- The girl found the sword while playing in the water.
- The girl told her father about the sword.
- Archeologists are searching for more artifacts in the lake.
- An ancient brooch was found in the lake.
- The story of the sword finding is being compared to the legend of King Arthur.
- There is speculation that the sword may have been part of a water burial.
- There is no indication that this story is false, it is being reported by multiple sources.

German street covered in chocolate (Real)



• Usage metadata: Prompt token count: 5959, candidates_token_count: 260, total_token_count: 6219

A chocolate factory leak in Werl, Germany, resulted in a street being covered in chocolate.

• TRUTH-O-METER: TRUE

- Supporting Points:
 - Visual Evidence: Video footage clearly shows a street covered in chocolate, along with firefighters working to clear the mess.
 - News Source: The video is attributed to Euronews, a reputable international news organization.
 - Location Confirmation: The video includes a location pin indicating Werl, Germany.
 - Incident Reports: Multiple news outlets reported on this incident, confirming its occurrence.
 - Expert Testimony: The video features firefighters, who are likely to be knowledgeable about such incidents.
 - Credibility: The video doesn't appear to be staged or fabricated, reinforcing its authenticity.
 - Consistency: The narrative presented in the video aligns with reports from other credible sources.
 - Lack of Contradiction: No reputable sources have refuted the claims presented in the video.
 - Common Sense: A chocolate factory leak is a plausible scenario that could result in chocolate flooding a street.
 - Public Interest: The incident garnered significant public interest, further validating its legitimacy.

Benchmarks

					Truth	-O-Meter	Rea	asons	Benchmarks	
S.No	Claim	Fact	Total Token Count	Truth-O-Meter	Accuracy	Consistency	Accuracy	Consistency	Total	Justifications
1	Chinese Robots performing indian classical dance	Fake	108212	FALSE	1	1	0.7	0.6	0.825	Consistency is low as it confuses with other versions of the claim with differen cultural appropriation.
2	Spinach is taught to send emails	Real	823	TRUE	1	1	0.8	0.9	0.925	logical info is missed out, yet gets the subjective aspects of the event like plac & year.
3	New ₹2000 notes have nano chip	Fake	25245	FALSE	1	1	0.9	0.9	0.95	Accurate & Consistent
4	China makes plastic rice	Fake	26943	FALSE	1	1	0.9	0.7	0.9	Lacks Consistency, in generating reason
5	Delhi teen finds place on UN green list	Real	887	TRUE	1	1	0.9	0.9	0.95	Accurate & Consistent
6	NASA is installing internet on the moon	Real	43956	TRUE	1	1	0.9	0.9	0.95	Accurate & Consistent
7	Eight year old girl pulls medieval sword from lake	Real	23212	TRUE	1	1	0.9	0.9	0.95	Accurate & Consistent
8	German street covered in chocalate	Real	6219	TRUE	1	1	0.9	0.9	0.95	Accurate & Consistent

Conclusion

- Overall, the accuracy & consistency of Gemini in producing the Truth-O-Meter Score, is startling, when we compare it with the reasons that it enlists as bulletin points.
- Even though there is some inconsistency with the bulletin points listed between different attempts of fact checking the same claim, the Proof-Of-concept is qualified to adopt AI as an assistive tool (with human supervision) in fact-checking tasks as early as possible.
- Technology Readiness Level: Proof-Of-Concept Validation [PASSED].