Instagram posts

stated on October 6, 2023 in an Instagram post:

> **"Bill Gates mRNA 'air vaccine' approved for use against non-consenting humans"**

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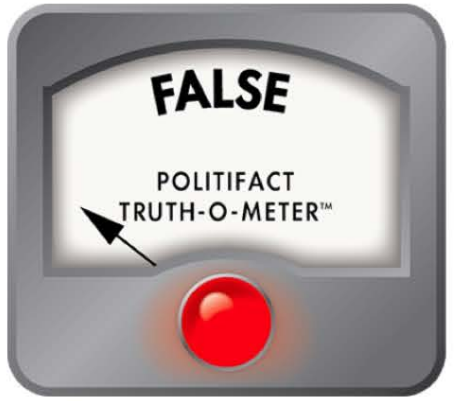


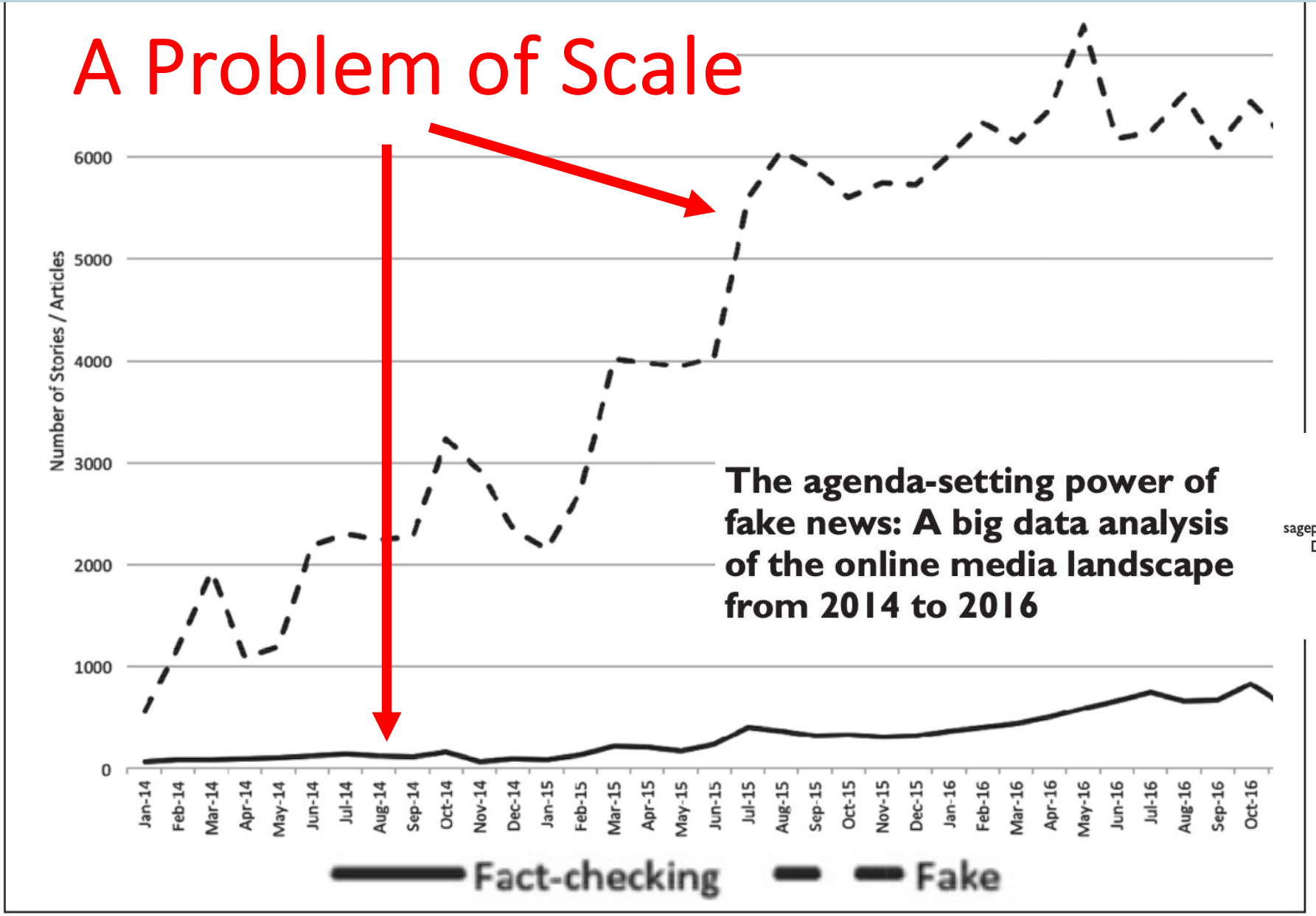
By Sara Swann

October 6, 2023

No, a Bill Gates-funded COVID-19 vaccine won't be released into the air

POLITIFACT
The Poynter Institute

A Problem of Scale



The agenda-setting power of fake news: A big data analysis of the online media landscape from 2014 to 2016

new media & society
1–22
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DOI: 10.1177/1461444817712086
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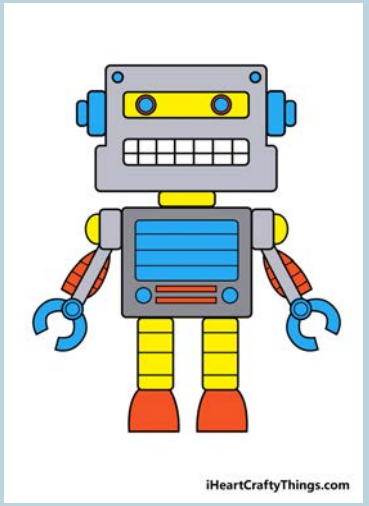
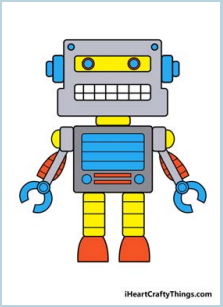
The number of fake news stories and fact-checking articles by month (2014–2016).

Fact Checking

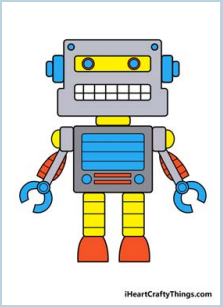


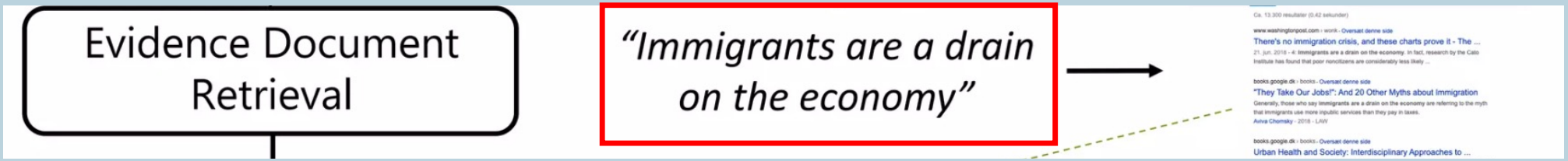
- Given a claim to check
- Find relevant evidence (e.g., search online)
- For each piece of evidence
  - Assess its stance: does it support/refute the claim? How strongly?
  - Assess its credibility: how much should we trust it?
- Aggregate all evidence to reach a conclusion



"Immigrants are a drain on the economy"

https://www.slideshare.net/isabelleaugenstein/towards-explainable-fact-checking





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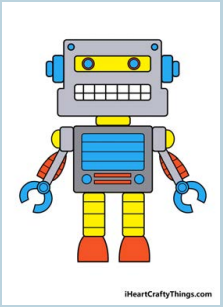

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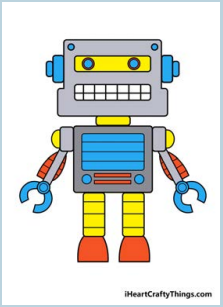
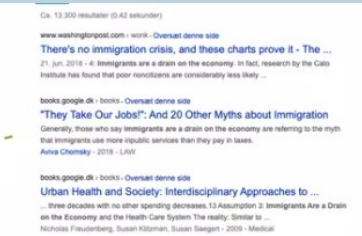


Evidence Document Retrieval

Stance Detection / Textual Entailment

Veracity Prediction

"Immigrants are a drain on the economy"



"Immigrants are a drain on the economy", "EU immigrants have a positive impact on public finances"

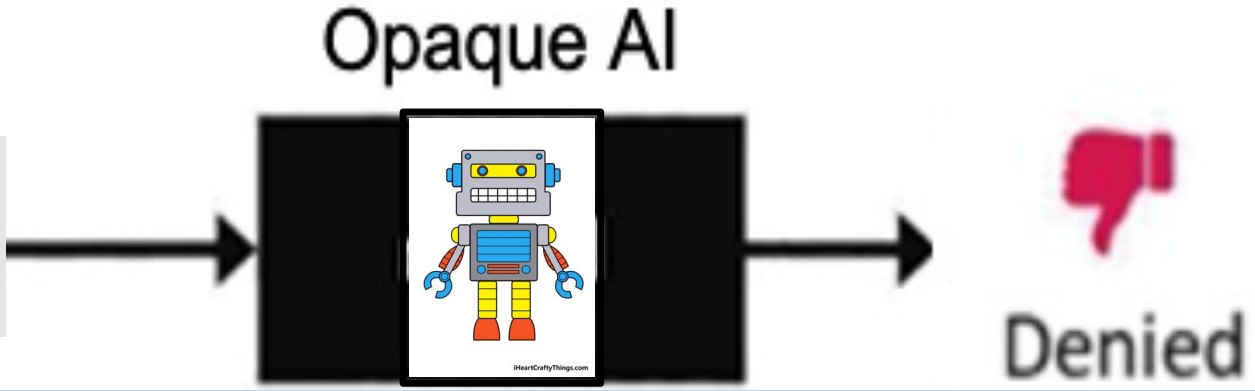
positive
neutral
negative

"Immigrants are a drain on the economy"

true
not enough info
false

https://www.slideshare.net/isabelleaugenstein/towards-explainable-fact-checking

Claim: COVID-19 vaccine contains nanoscale robots



- **AI is more scalable but makes mistakes (inferior to human fact-checkers)**
  - How can people effectively use AI systems that make mistakes?
- **AI systems typically do not explain their outputs**
  - Why trust an opaque AI model? Especially in high-stakes settings, or in a setting like fact-checking in which trust is already highly fragile.

Can we get the best of both AI scalability and human accuracy?

FRONTIERS / RESEARCH HIGHLIGHT

MITSloan Management Review

Designing AI Systems With Human-Machine Teams

The greatest potential from artificial intelligence will come from tapping into the opportunities for mutual learning between people and machines.

Maria Jesus Saenz, Elena Revilla, and Cristina Simón • March 18, 2020