



The Role of AI in the Future of News Intelligence

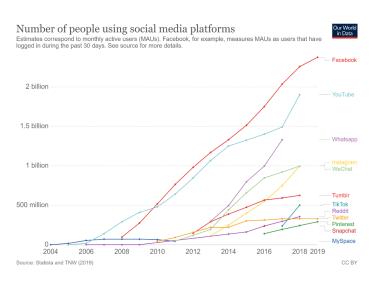
Huan Liu

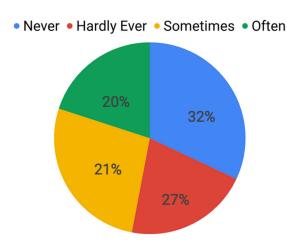
April 14, 2021



The Future of News Is More Digital

- People are increasingly consuming digital news,
 e.g., social media for information sharing, social networking, interaction, ...
- 68% of Americans get news on social media





https://www.journalism.org/2018/09/10/news-use-across-social-media-platforms-2018/



Disinformation is Rampant on Social Media

- Disinformation is false information [news or nonnews] with an evil intention to mislead the public
- "A lie will gallop halfway round the world before the truth has time to pull its breeches on."
- Disinformation is dividing, misleading, and can also be weaponized
- After it is detected, we want to have it mitigated

Challenges for AI in Mitigation

- Can AI help? How?
 - E.g., Using AI debaters?
- Accurate detection ≠ successful mitigation
- Mitigation involves users
 - It is a complex issue with new dimensions
 - Users have their own judgments/opinions

Users are on social media "alone together"

We, Users, are Irrational

- Echo chambers
 - Examine our social networks
- Filter bubbles
 - Look at the news sources we get our daily news
- Are we susceptible to disinformation?
 - "No, I am immune to disinformation"
- We are easy to fall victims to confirmation and desirability biases

A Few More Challenges to Al

- Conversational receptiveness
 - We are so eager to convey our ideas or beliefs and want to win the argument

https://www.scientificamerican.com/article/the-right-way-to-talk-across-divides

- If $A \to B$, then $\neg A \to \neg B$ (let's pause and take poll)
 - Can you think of an example of this form?

An easy to make, common logic error in daily life

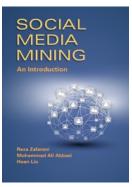
 Conclusion: Facts and logic often cannot change people's stand

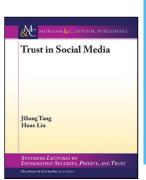
Is AI Sufficient for News Intelligence?

- Mitigation is important, but
 - We all have our own preferences ☺
- Mitigation is an issue of different disciplines
 - It is a complex problem
 - Diverse approaches are essential
- Look beyond data-driven AI to embrace a user-aware interdisciplinary approach

Thank You All

- Three Recent Surveys
 - Learning Causality with Data: Problems & Methods
 - Privacy in Social Media: Identification, Mitigation, ...
 - Causal Interpretability: Problems, Methods & Eval ...











http://www.public.asu.edu/~huanliu