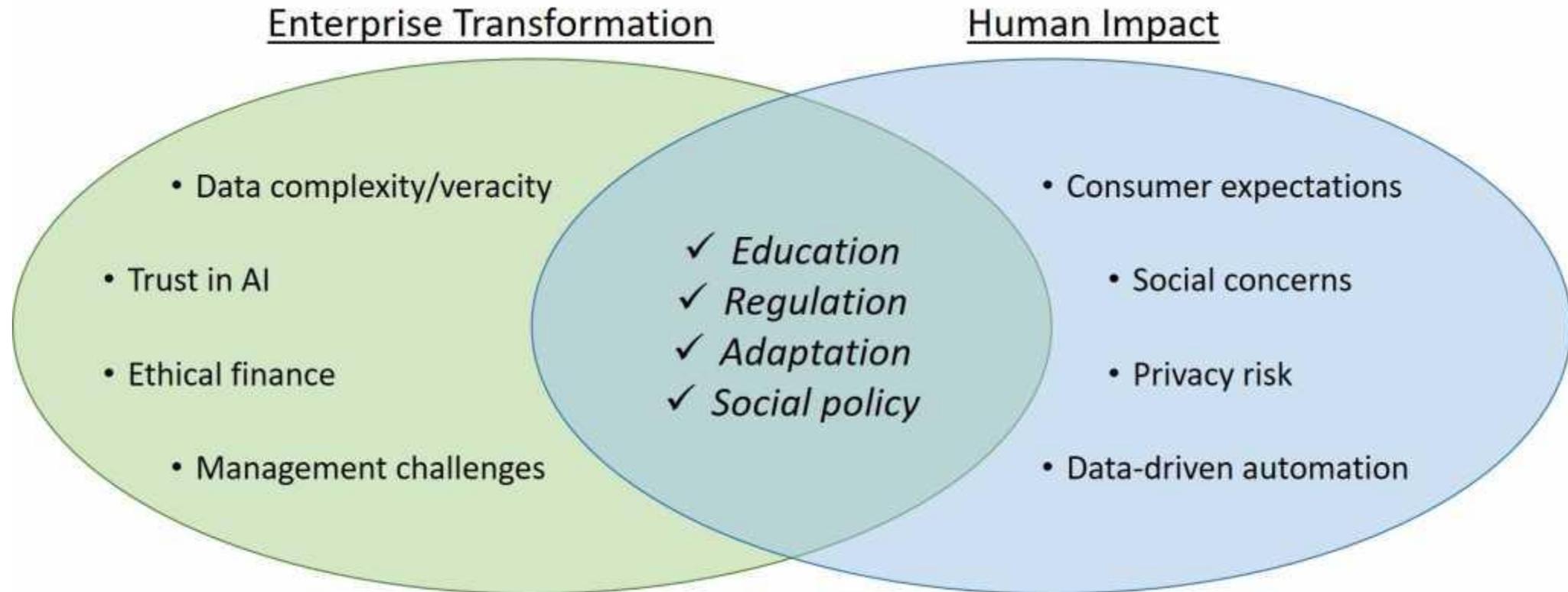
The background features a complex network of interconnected nodes and arrows. The nodes are represented by circles of varying sizes and colors, including light blue, dark blue, and black. The arrows are thin lines with arrowheads, indicating a flow or relationship between the nodes. The overall pattern is dense and somewhat chaotic, suggesting a complex system or process. The background is a gradient of blue, transitioning from a lighter shade at the top to a darker shade at the bottom.

Deontic Analytics

Stephen Downes

October 26, 2021

Deontic Analytics



<https://insightaas.com/new-research-ai-and-advanced-analytics-connecting-culture-ethics-and-society-in-a-machine-age/>

Analytics that look at expressions of sentiments, needs, desires, and other such factors in order to determine what sort of outcome would be best

Community Standards

AI interprets and extends human decision-making defining community standards.

For example: Facebook's [system](#) called [CLARA](#) (Confidence of Labels and Raters).

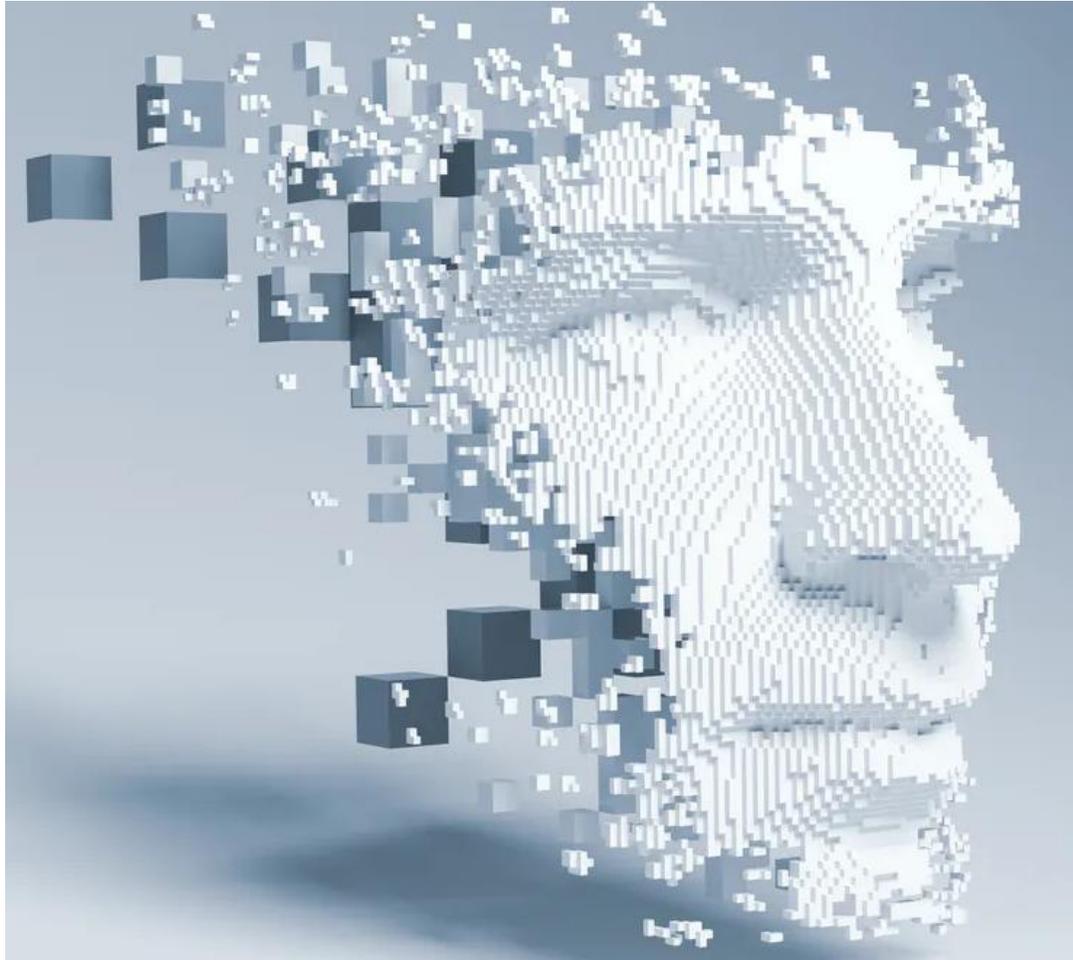
<https://www.digitalinformationworld.com/2020/08/facebook-new-ai-estimate-the-uncertainty-in-human-generated-decisions-to-improve-its-community-standards.html>

<https://www.digitalinformationworld.com/2021/10/a-machine-learning-algorithm-goes-over.html>



A Machine Learning Algorithm Goes Over Data From Thousands Of Articles To Reveal That 85% Of The World's Population Is Affected By Climate Change

Influencing Human Behaviour



For example, “AI can learn to identify vulnerabilities in human habits and behaviours and use them to influence human decision-making.” Four main social roles:

- role model,
- advisor,
- partner,
- and delegate

<https://theconversation.com/ai-can-now-learn-to-manipulate-human-behaviour-155031>

Identifying the Bad

Patterns and behaviours exhibited by one or more persons may be evidence of bad intentions



E.g. AI-powered lie detector

<https://www.technologyreview.com/2020/03/13/905323/ai-lie-detectors-polygraph-silent-talker-iborderctrl-converus-neuroid/>

Amplifying the Good

Mythical worry:

AI turning evil

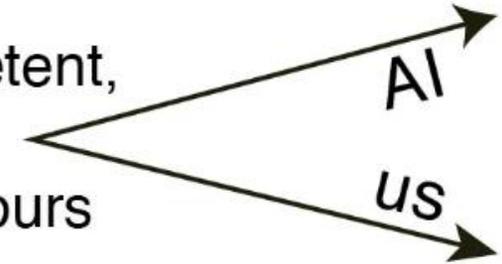
Mythical worry:

AI turning conscious



Actual worry:

AI turning competent,
with goals
misaligned with ours



“Everything we love about civilization is a product of intelligence, so amplifying our human intelligence with artificial intelligence has the potential of helping civilization flourish like never before – as long as we manage to keep the technology beneficial.”

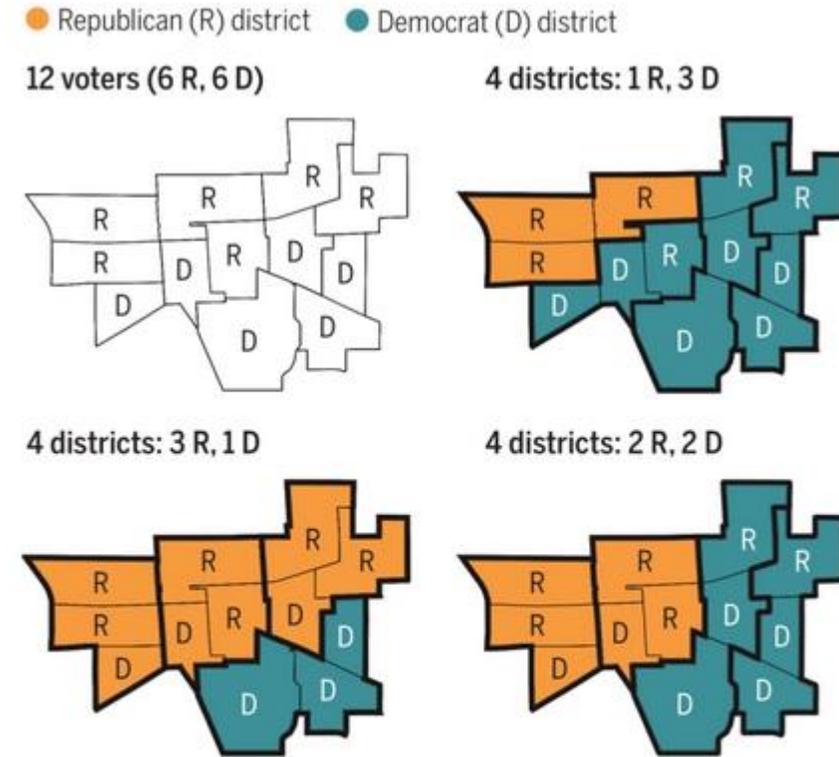
Max Tegmark, President of the Future of Life Institute

<https://futureoflife.org/background/benefits-risks-of-artificial-intelligence/>

Defining What's Fair

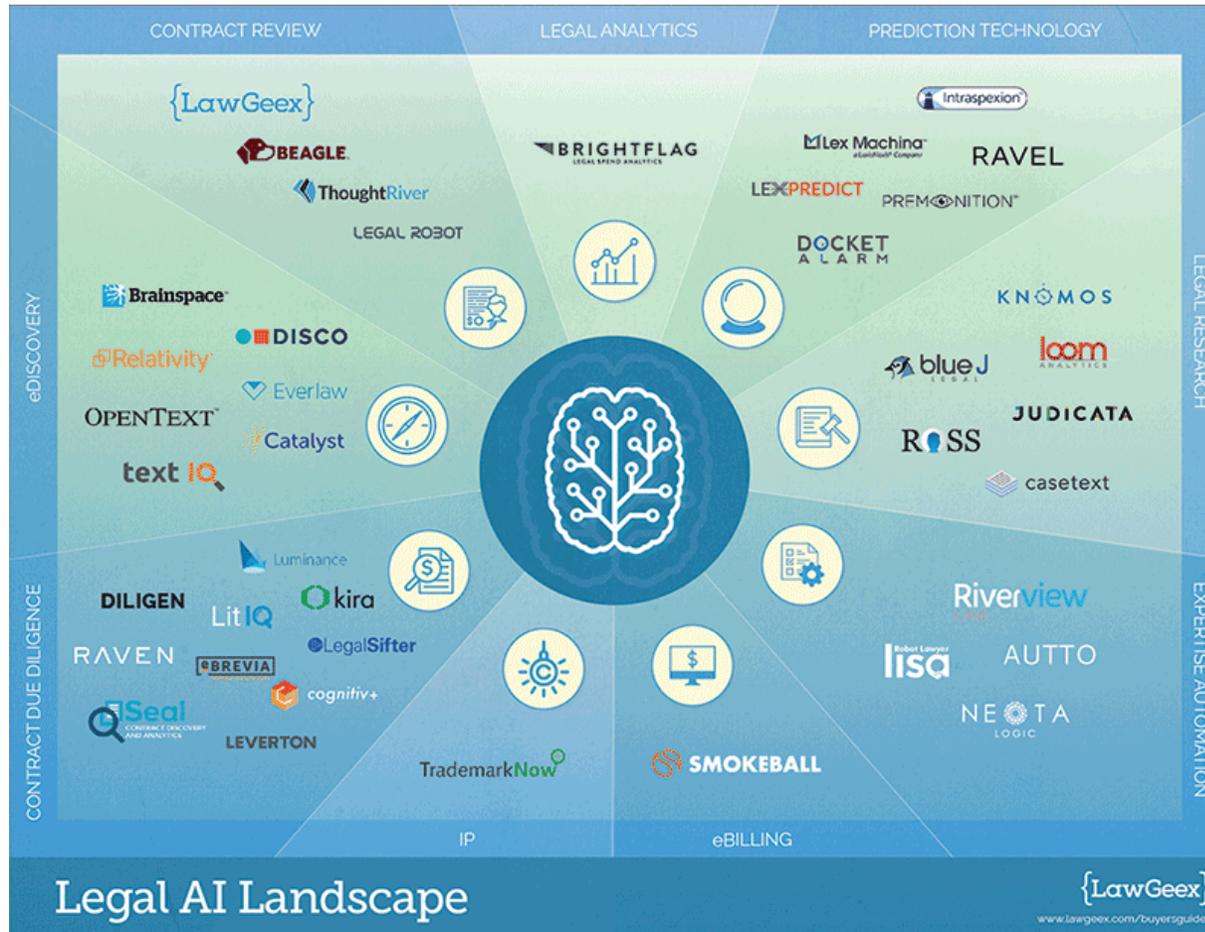
AI can define what is 'optimal' depending on different factors. Examples include fairly redesigning the tax system or creating fair congressional districts.

<https://techcrunch.com/2020/09/04/ai-drawn-voting-districts-could-help-stamp-out-gerrymandering/>



This illustration from Cho and Cain's article shows a simplified version of a districting problem showing how partisan districts can be created depending on who's drawing them. (Image credits: Cho/Cain/Science)

Changing the Law



- The existence of AI can cause the creation of new law
- The way AI performs can inform the content of that law

<https://www.topbots.com/automating-the-law-a-landscape-of-legal-a-i-solutions/>

https://www.researchgate.net/publication/342774266_Artificial_Intelligence_and_Legal_Disruption_A_New_Model_for_Analysis

Easing Distress

- Applications aim to coach users through crises using techniques from behavioral therapy.
- Similar systems could interact with students and modify sentiments and emotions that may be interfering with their learning and socialization – a Fitbit for the mind.

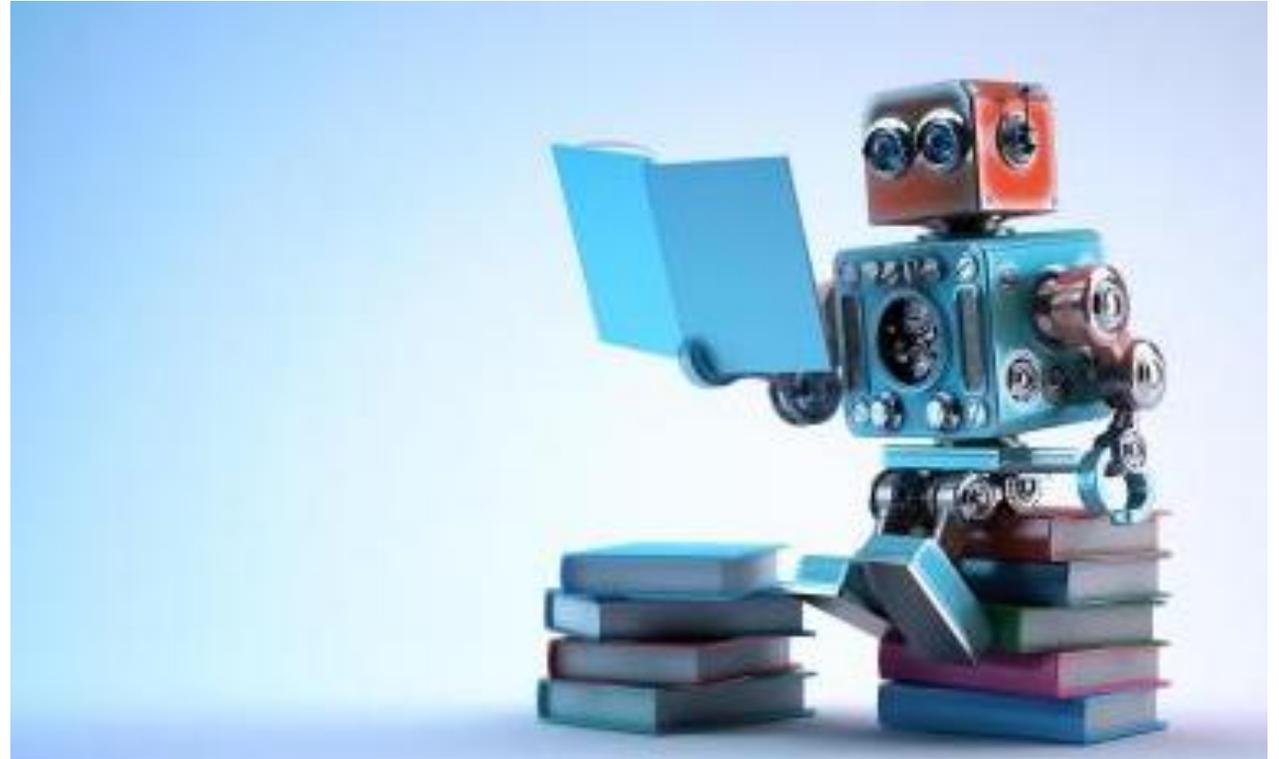


<https://www.cbsnews.com/news/controversial-facebook-emotion-study-journal-responds/>

<https://www.forbes.com/sites/cognitiveworld/2019/12/17/empathy-in-artificial-intelligence/>

Moderating Discourse

AI seems like the perfect response to the growing challenges of content moderation on social media platforms: the immense scale of the data, the relentlessness of the violations, and the need for human judgments without wanting humans to have to make them.



https://www.researchgate.net/publication/343798653_Content_moderation_AI_and_the_question_of_scale