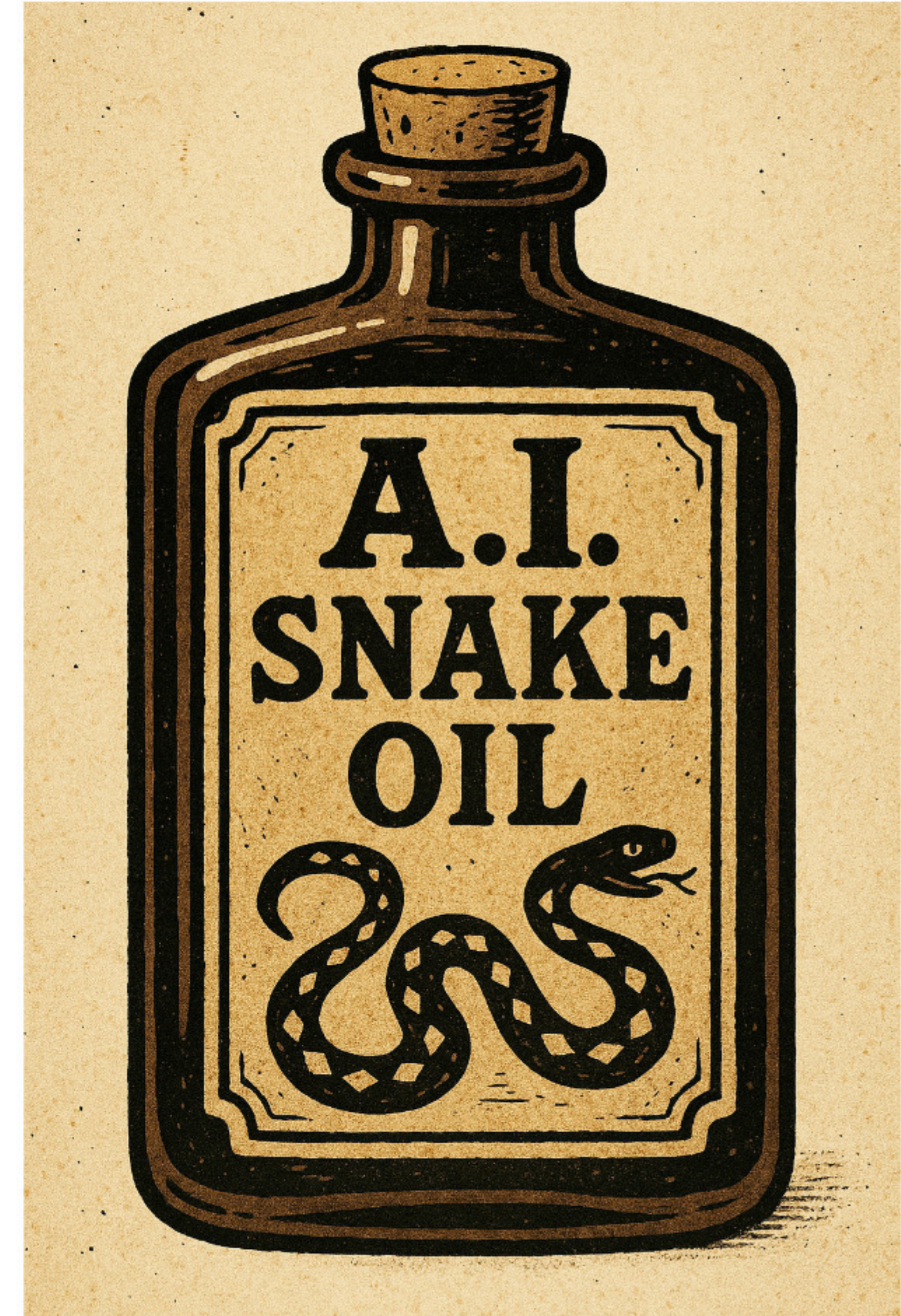


Welcome to the club!





This week's reading

Chapter 7: Why Do Myths about AI Persist?

Questions/ Notes

1. Should proprietary AI models undergo peer review? Would this help identify discrepancies in accuracy claims, overhyped capabilities, and biases, including religious bias?

3. Does anthropomorphizing AI lead to misplaced trust?

4. Does a lack of understanding of AI's inner workings contribute to misplaced trust in its decisions?

7. Is explainable AI useful? If AI decisions can be clearly explained, could this counteract the hype?

9. Authors mention even peer reviews can have error creep in. Is reproducibility only option?

2. Should journalists have a stronger technical understanding of AI before promoting its potential?

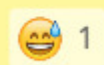
6. Should AI research be subject to regulations similar to those in the medical industry, or should corporate-funded research practices be more widely debated?

11. Gartner Hype Cycle

8. Standardised tests doesn't mean skill

10. Reproducibility Crisis in Science and ML

5. Should radiologists be replaced by AI?



12. AI hype in journalism

13. Is public figures hyping AI the issue or lack of knowledge on AI the issue

14. How to know these cognitive biases around AI

Gemini Flash

Sci-fi's dramatic AI tales fuel unrealistic fears.
AI's "black box" nature breeds mystery and mistrust.
Rapid progress outpaces public understanding.
Sensational media amplifies potential AI dangers.
Human fear of the unknown drives myth persistence.

Copilot

AI myths persist due to misunderstandings, dramatic media portrayals, and fear of the unknown. Rapid advancements and misinformation amplify these misconceptions, making them harder to dispel.

ChatGpt 4o

AI myths persist due to sci-fi influence, media hype, and lack of understanding. Sensational headlines exaggerate AI's abilities, while fears of job loss and automation fuel misconceptions. Companies overpromise AI capabilities, and social media amplifies misinformation. Educating people on AI's real strengths and limits is key to dispelling myths.

Why do myths about AI persists?

Grok 3

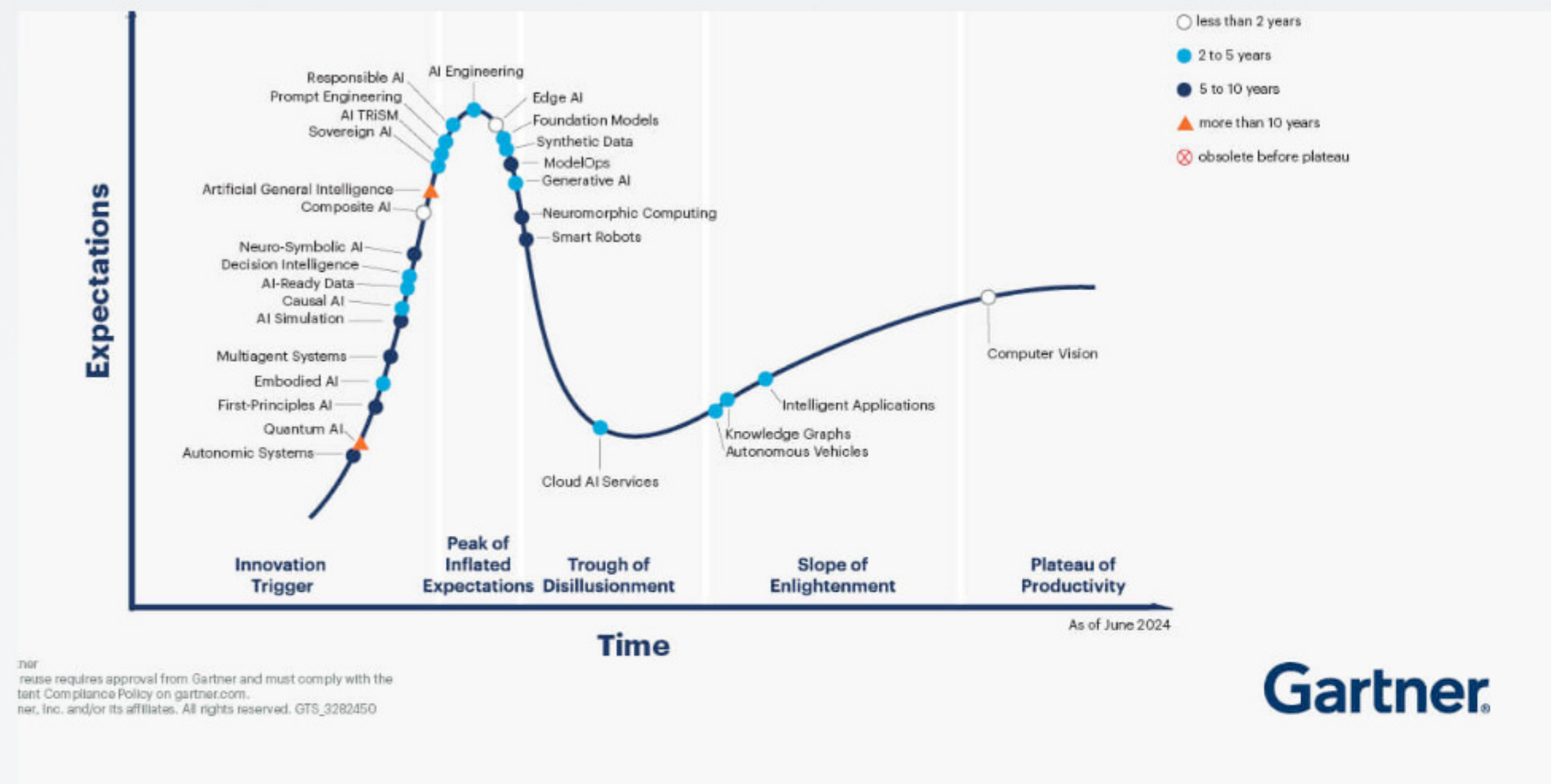
Myths about AI persist because its complexity confuses people, sci-fi stories create lasting but inaccurate impressions, companies exaggerate capabilities for hype, fears of job loss or societal change amplify dramatic ideas, and misinformation spreads easily online.

Claude 3.7 Sonnet

Myths about AI persist largely because of:
Media sensationalism and science fiction portrayals
Technical complexity that makes AI difficult for non-specialists to understand
Our natural tendency to anthropomorphize technology
Commercial hype that often overstates current capabilities

Deepseek

Myths about AI persist because:
Sci-fi hype – Movies like *Terminator* shape exaggerated fears.
Media sensationalism – Headlines overstate AI's real capabilities.
Anthropomorphism – People assume AI "thinks" like humans.
Corporate marketing – Companies call basic tech "AI" for buzz.
Technical ignorance – Few understand how AI actually works.



[4]

Reproducibility

1. Changes to ML frameworks [7]
2. Randomness in Models [12][11]
3. Slight deviations in these settings can result in significantly different outcomes [13]
4. Economic costs due to irreproducible research

Discussion

3/4 Doctors got it wrong. Why statistics is important? [14]

Sundar Pichai admits people 'don't fully understand' how chatbot AI works



Further reading / additional resources

1. https://www.researchgate.net/publication/378967574_Three_different_types_of_AI_hype_in_healthcare
2. Snakeoil ?? - <https://www.healthcareitnews.com/news/cutting-through-ai-hype-ensure-investments-have-impacts>
3. Trying to bring AI peer review-
<https://www.tandfonline.com/doi/full/10.2147/NSS.S513872#d1e144>
4. <https://www.gartner.com/en/articles/hype-cycle-for-artificial-intelligence>
5. Snakeoil ?? - <https://www.silenteight.com/blog/beyond-the-ai-hype-silent-eight-s-proven-solution-for-financial-institutions>
6. Are Journalist right people? -
<https://www.journalofaccountancy.com/issues/2025/feb/generative-ais-toughest-question-whats-it-worth/>
7. https://www.researchgate.net/publication/383908863_Journals_AI_Revolutionizing_Healthcare_Innovations_Challenges_and_Ethical_Considerations
8. <https://blog.ml.cmu.edu/2020/08/31/5-reproducibility/>
9. <https://arxiv.org/html/2407.10239v1>
10. <https://www.qwak.com/post/why-reproducibility-is-important-for-ml>
11. <https://pmc.ncbi.nlm.nih.gov/articles/PMC7335677/>
12. <https://arxiv.org/abs/2406.14325v3>
13. <https://www.sciencedirect.com/science/article/pii/S266682702400001X>
14. <https://pmc.ncbi.nlm.nih.gov/articles/PMC10118231/>
15. <https://arxiv.org/html/2407.21202v1>

