Pune AI Community
2,482 followers
21m • 🌐

Data is the new oil. When refined, it powers analytics and AI. In geopolitics they say whoever controls water controls the world. In tech, we say whoever controls data and chips controls AI. It really is that crucial. 🤖 💧

Modern AI is data-hungry. It works at population scale. Its rapid progress was possible only because of a global data deluge. But here is the uncomfortable question: is this same data deluge slowly killing our ability to generate original ideas?

Gautam Desiraju and Deekhit Bhattacharya raise a sharp point in "Is a data deluge dampening our idea generation capability?". Science today is drowning in papers, sub-fields, and datasets that do not talk to each other. Publishing has become bureaucratic and risk-averse. A 1,000-word paper by Watson and Crick changed biology in 1953. Today, truly disruptive ideas often struggle to survive peer review because they do not fit narrow templates. 🗨️ 📄

The credibility crisis is real. In 2023, more than 10,000 papers were retracted globally, many due to data authenticity issues. Journals are flooded with data but still rely on outdated human-only review systems.

AI can help, but it can also harm. Tools like LLMs and systems similar to Alpha-Fold can accelerate discovery, but they can also amplify errors, biases, and misstatements at machine speed. A single wrong summary can become "truth" overnight.

The future of scientific papers may be machine-readable data, APIs, and AI-personalized summaries. Exciting? Yes. Dangerous? Also yes. ⚡

Here is the debatable question: If AI can read, review, summarize, and even generate science faster than humans, should we still trust the traditional peer review system, or is it already obsolete?

(Pic below: 'Deluge' by J. M. W. Turner)

#ArtificialIntelligence #DataEconomy #FutureOfScience #PeerReview #AIethics 🤖 📊