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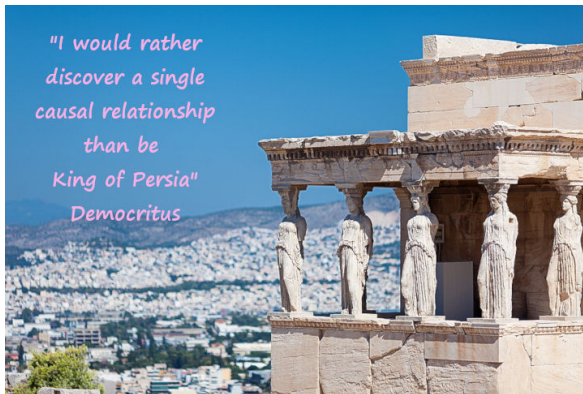
July 7, 2025



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Past: Distinguishing between correlation and causation



Distinguishing between correlation and causation is necessary in all the sciences. It is the goal of science and of the scientific method.

Present: Clayton Christensen on Causality

“Correlation does not reveal the one thing that matters most in innovation—the **causality behind why I might purchase a particular solution.** [...]

I spent my life developing theories about management. **A theory is a statement of causality.** Every time you as a manager take an action, it's predicated on a theory: If I do this, this will be the result. If we do it this way, we'll be successful.”

— Clayton Christensen



Source: <https://hbswk.hbs.edu/item/clay-christensen-the-theory-of-jobs-to-be-done>



Spock-GPT

science officer of the
starship @OpenAI

Spock-GPT will be able to perform the scientific method and causal inference. This will enable it to discover heretofore unknown causal pathways to diseases, and go where no man has gone before.

What problems does ar-tiste.xyz solve?

- Healthcare and Biotech: finding causal pathways for diseases
- Business Management, A/B test and beyond
- Longevity research
- Dieting
- ...

Startups applying causal AI to healthcare/biotech

We have written open source software called Mappa Mundi that seamlessly combines 2 giant topics in Artificial Intelligence (AI):

- Large Language Models (LLM) such as ChatGPT, GPT-4, Bard, etc
- Causal Inference (the gold standard theory for distinguishing between correlation and causation. Invented by Judea Pearl)

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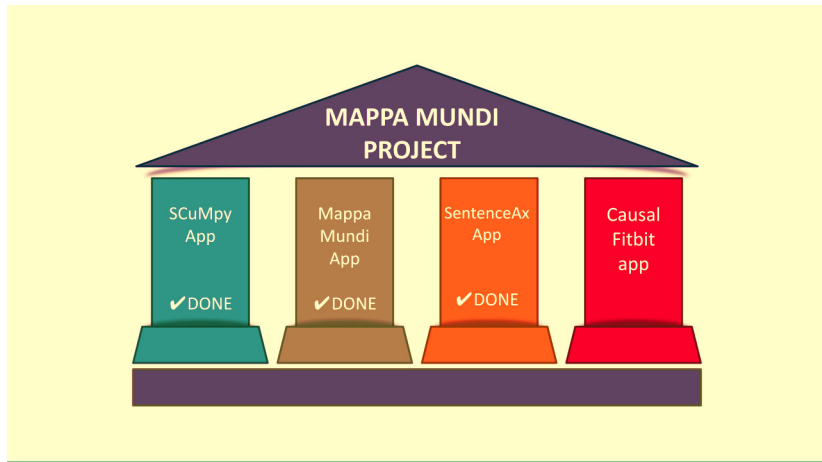
LLMs are currently used merely as exquisite curve fitters. To attain human level intelligence, one needs more than just curve fitters. One also needs to add to LLMs, at the very least, 3 things:

- ① a method for discovering causal world models (i.e. DAGs) from data
- ② a directory (i.e., atlas) of DAGs. A DAG atlas is necessary so as to remember past DAGs for future reuse.
- ③ an explicit engine (like our software SCuMpy) for performing Pearl's 3 rungs of causal inference and the closely related scientific method

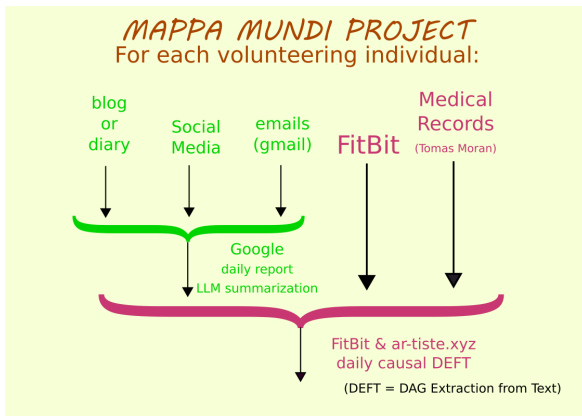
Our software Mappa Mundi accomplishes 1, 2, 3.

MM: 4 apps

SCuMpy, Mappa Mundi, SentenceAx, CausalFitbit



MM: Finding Causal Pathways for diseases



How Google
can crush
its LLM
competitors
OpenAI
and Meta by
Bard-ifying
its FitBit
product line.

MM: features

- Mappa Mundi (MM) is free open source software that extracts causal networks (DAGs) from text.
- MM works with any text that does chronological storytelling, such as novels, movie scripts, time stamped lab notebooks and patient diaries. It can be used to find causal pathways to diseases.
- MM uses 2 types of state of the art (SOTA) LLMs
 - ① Openie6 – for SOTA sentence simplification
 - ② sentence transformers – for SOTA sentence similarity
- MM is immune to hallucinations because 1 and 2 are immune
- MM is immune to copyright infringement lawsuits because 1 and 2 did not use copyrighted data to train.
- MM can't be hacked by prompt injection because it doesn't use prompts.

Flood and Drought Anticipatory Action

