

# AI For VistA

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# Background

- AI has been used for a long time
  - Google Language Translate
  - Gmail grammar checker
  - Watson (note: not successful!)
- <https://arstechnica.com/science/2023/07/a-jargon-free-explanation-of-how-ai-large-language-models-work/>

# Sam's Brief Remarks

- I used ChatGPT for development - discussion
- Comparing Search Engine Economics with AI Economics
- Remarks on whether an Open Source codebase can succeed

# ChatGPT and Development

Question	Is Answer Correct?
How can you make Putty not show line drawing characters as qqqq etc?	No
concatenate strings C	Yes
Can you write YottaDB code to listen at a TCP socket?	No
using readline library, how do you display a specific history item for editing?	No
Use readline library history_get using dlopen?	No
what's the technology stack behind cockpit?	Yes
is there a web server that switches unix/linux users based on POST data?	No
Refactor <a href="https://gitlab.com/YottaDB/DB/YDB/-/blob/master/sr_unix/dm_read.c">https://gitlab.com/YottaDB/DB/YDB/-/blob/master/sr_unix/dm_read.c</a> to use readline library.	No

# Search Engine Economics

- "Really only two companies (Google and Microsoft) have a high-quality global web link index (because I believe it costs upwards of a billion dollars a year to do), and so literally every other global search engine needs to bootstrap with one or both of them to provide a mainstream search product."
  - DuckDuckGo CEO
  - Source:  
<https://www.reddit.com/r/technology/comments/uxiah9/comment/i9xxjsn/?context=3>

# Compare Generative AI with Search Engines

- Both seem to require a lot of data processing
- Both also seem to require human moderation
- Therefore, it seems (right now) that economically only players with a lot of data and staff will be able to offer AI solutions.

# Public CONTENT Economics

- Will an Open Source AI code base matter?
- Unless Government funded/mandated, we do not have a good examples of medical content that is Public, Up to Date, and Free to Use.
  - RxNorm/Pubmed are good examples
  - Private efforts to do drug interactions gain steam and fizzle and become out of date