'Prompting economics'

How to reconcile 'traditional' information services with Al-based information practices

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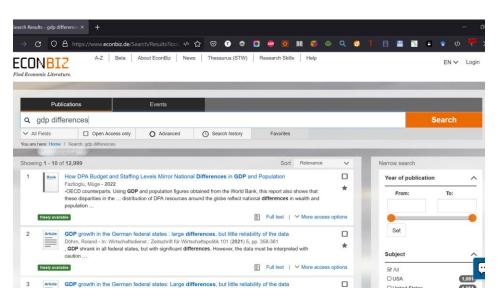
Beyond the Numbers 2023 Federal Reserve Bank of St. Louis November 6 – 8, 2023





'Traditional' information services (as we know them)

(example: EconBiz)

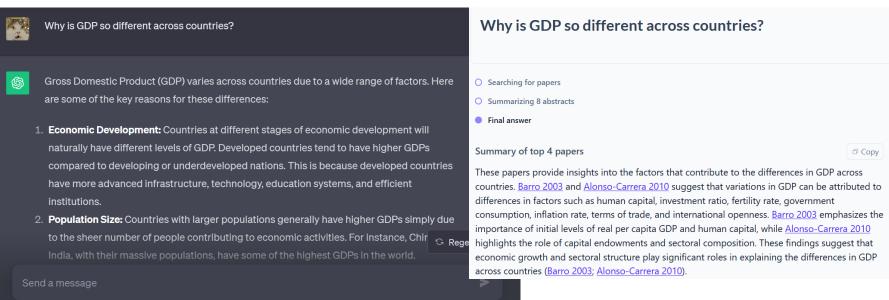


- built upon metadata as proxies for documents
- keyword-based retrieval
- rankings based more on formal criteria (e.g., popularity, freshness, relevance)
- selective ,list'-view
- content itself often inaccessible or exposed via snippets (mostly from abstracts)





Now, some intervention is happening...



https://chat.openai.com/







How to deal with this? A few suggestions...

Continuously observing and evaluating information behaviour in economics.

Common activities and tasks (as far as we have come to know them...):

- brainstorming and structuring
- literature search and summaries
- translations / text improvements / text formatting
- data analysis
- coding (in terms of Al pair programming)
- prompting*

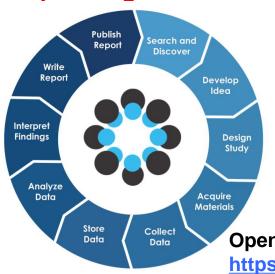
Cf. <u>Anton Korinek, 2023. "Language Models and Cognitive Automation for Economic Research" NBER Working Papers 30957</u>





How to deal with this?

Keeping track and informing (oneself) about Al-based tools and practices as part of general information literacy.





G Continue with Google

RAPIDMINER





GPTZero

Humans Deserve the Truth

Open Science Framework for Research Workflows

https://humtech.ucla.edu/event/open-science-framework-

research-workflows/



Leibniz-Informationszentrum Leibniz Information Centre



How to deal with this?

Adopting and contextualizing pre-trained Large Language Models (LLMs), e.g. by fine-tuning and training them with domain specific word embeddings for

- text classification (purpose: subject indexing and retrieval)
- **text summarization** (information retrieval, literature review)
- translating natural language user prompts to queries (information retrieval)

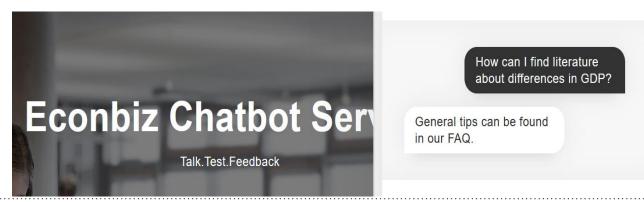




How to deal with this?

Integrating AI approaches and infrastructures into existing information services and practices: first on an experimental level, then by becoming productive.

Example @ZBW: Chatbot-based information assistant









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