

xtitle/AI

AI and language change & variation

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abstract B: idee 2

language is developing and changing. there are many factors that influence language change, but i want to focus on one that may become relevant in todays language development: the change of language by constant and increasing use of AI tools that :communicate: with us as partners one may consider :real: or human-equivalent.

inspiration

now what are we experiencing if communicating with an artificial intelligence? first comes to mind the seemingly :natural language: adressed to us. one may feel as if talking to a human when asking questions and getting a response. studies prove that a significant amount of us show behaviour towards the AI that one would expect humans show only towards each other. that leads to the first question:

if we hold the AI as a human communication partner, could its behaviour towards us (here: their language) influence the way we talk/act viceversa? can people learn from an AI *how* to talk and what would they learn in this case? what is the language *taught* here specifically? do we adapt to patterns or linguistic markers common for *AI speech*?

AI speech: wtf

we can assume as common ground that the language used (here: output) by LLMs seems rather neutral, deprived of features deviating from the norm. its rather easy to understand, doesnt contain irony or sarcasm very often nor hyperbolic sentence structures (if not explicitly prompted) and could be very well used in a textbook for learners. it may be considered *universal* in aspects of transferability into other languages. it uses to not contain any specific vocabular or non-standard phrases. the syntax and grammar seems to follow the corresponding rules as the models are trained on large corpora of natural language. if we would (and we will do that) analyse a corpus of LLM outputs we very probably will find that in any feature it complies with the average feature matrix of any language compared. so if one language goes like SPO with having an average wordcount of 5wds/phrase and an average wordlength of 5 chars then the LLM certainly will show the same features for output in that language. no magic so far.

But: what if learners or people with deficient language skills begin to sync their output with the artificial language in their chatverlauf? simple like: beginning a response firstly with an appreciation of the :very interesting question: whatever the other may have asked? we're already heading that way...

There may also be tiny (oberlehrerhafte) standardisations of our own speech peculiarities (idiosyncrasies) we are confronted with which we are kind of nudged to relativate if always sending them into a black hole.

methods

first to do would be to create (or search for) a corpus of AI generated output. to use an existing corpus would prevent biasing which on the other hand could be interesting to explore i.e. we could by building (generating) a corpus ourselves on the basis of certain dedicated prompts¹ force the AI to generate phenomena of interest to our research question. where we get into medias res...

focusing questions

1. does a generative AI generally produces output that is in any aspects of interest for linguistic research?
2. how will users prime the output?
3. how are users adapting their own production to the output?
 1. is there any consistency concerning this adaptation?
 2. is there then societal adaptation of AI produced language?

¹which could very well be adapted to our research question

3. what are the rules (historic evidence) for adaptation?

going deeper

corpus creation

as proposed in Section - a secure way to building a corpus of AI speech - which we need to explore phenomena - is to archive LLM output to dedicated prompts. we will use an open source model provided with llama which can run on a local machine and is addressed via an API by script.

constraints

we will form prompts following these directives lead by our research question: 1. correction of mistakes to devise actual “knowledge” of model concerning standardisation and normative aspects

capacities

to arrive at a research question, maybe discarding above

what i would like to...

- AI chat queries analysis
- analyse linguistic knowledge capacities of AIs
- proofread responses, factchecking

and what i actually can do

- statistics
- automated prompting using APIs
- automated response processing
- masked prompt generation

annotations

the research-question-still-to-develop will orientate on the findings (Table 1, my annotations) in BSI (2025) where i see some interesting points although the source itself may be subject to doubt.

prompt-linguistics seems to be a promising keyword in this context, also Vechta U (2024) published a CfP² in that genre for a themenheft which will be published april 2026 titled: **Themenheft Beyond Prompting?! Sozio-technische Systeme, KI und Medienbildung in der Post-Digitalität**, edited by Annekatrin Bock, Lina Franken, Franco Rau, Jessica Kühn und Ada Fehr.

from here...

...we come to a maybe more feasible to explore topic within the research of semantic, syntactic and pragmatic features of speech of AI users that is affected by that use. in the not citable BSI (2025) a focus lies on how users language changes depending on their making “heavy use” of AI tools. there seems to be an influence of the affordances to create successful/optimized prompts for best results on a. the language used in that prompts and furthermore b. the language beyond that usecase say the users everyday life. which is exactly what we were looking for, and from here, we can dig into corpora to find manifestations of features the study discovered as e.g. simplification of komplex syntactic structures in favour of reference based patterns.

References

- Aleksic, Adam. 2025. “Opinion | It’s Happening: People Are Starting to Talk Like ChatGPT.” *The Washington Post*, August. <https://www.washingtonpost.com/opinions/2025/08/20/chatgpt-claude-chatbots-language/>.
- BSI, Brand Science Institute. 2025. “Wie KI Unsere Sprache Verändert – Eine Empirische Studie.” <https://www.bsi.ag/cases/104-case-studie-wie-ki-unsere-sprache-veraendert---eine-empirische-studie.html>.
- Duke UPress. 2025. “Critical AI.” <https://www.dukeupress.edu/critical-ai>.
- Kalwa, Nina. 2025. “»Noch Steckt KI in Den Kinderschuhen«.” *Zeitschrift Für Literaturwissenschaft Und Linguistik* 55 (2): 379–405. <https://doi.org/10.1007/s41244-025-00379-0>.
- Krauß, Patrick, and FAU U. 2025. “Studie Zeigt: KI Lernt Sprachregeln Beim Lesen.” *FAU*. <https://www.fau.de/2025/11/news/forschung/studie-ki-lernt-sprachregeln-beim-lesen/>.
- Milička, Jiří, Anna Marklová, and Václav Cvrček. 2025. “AI Brown and AI Koditex: LLM-Generated Corpora Comparable to Traditional Corpora of English and Czech Texts.” <https://doi.org/10.48550/arxiv.2509.22996>.

²for which i in the moment dont find a reliable source anymore so its not cited.

- Ramirez, Vanessa Bates. 2025. "ChatGPT Is Changing the Words We Use in Conversation." *Scientific American*. <https://www.scientificamerican.com/article/chatgpt-is-changing-the-words-we-use-in-conversation/>.
- Roussel, Stephanie, and Ayaal Herdam. 2024. "Einsatz von Künstlicher Intelligenz Im Überarbeitungsprozess von Texten in Der Fremdsprache Deutsch: Fokus Auf Wortschatz Und Syntax." *German as a Foreign Language* 2024 (3): 61–86. <https://hal.science/hal-04999057>.
- Vechta U. 2024. "Beyond Prompting." <https://www.uni-vechta.de/beyondprompting/news/details/projekt-beyond-prompting-erfolgreiche-drittmittleinwerbung>.