Can LLaMA understand German?

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Language	Percent	Language	Percent
en	89.70%	uk	0.07%
unknown	8.38%	ko	0.06%
de	0.17%	ca	0.04%
fr	0.16%	sr	0.04%
sv	0.15%	id	0.03%
zh	0.13%	cs	0.03%
es	0.13%	fi	0.03%
ru	0.13%	hu	0.03%
nl	0.12%	no	0.03%
it	0.11%	ro	0.03%
ja	0.10%	bg	0.02%
pl	0.09%	da	0.02%
pt	0.09%	sl	0.01%
pl pt vi	0.08%	hr	0.01%

Can LLaMA understand German?

Possible solutions

- Hope and wait that the original authors will support more languages
- Find fine-tuned versions
- Fine-tune the models myself
- Use prompt engineering

Other possible Llms

Llama-2-13b-chat-german - a fine tuned version of llama

German Bert

Which is "better"?

Llama-2-13b-chat-german - a fine tuned version of llama

VS.

German Bert

Which is "better"?

winner

Llama-2-13b-chat-german - a fine tuned version of llama

VS.

German Bert

Requirements

computing power?

to train?

tech?

to fine-tune?

What resources are needed to do what?

system needs?

to NLP?

Hardware?

to test?



Requirements

Task	Possible with Average Device	Not Possible with Average Device
Training Models	Can run smaller or simplified models.	Training large models from scratch.
Fine-Tuning	Limited fine-tuning on smaller datasets.	Extensive fine-tuning on large datasets.
NLP Tasks	Basic tasks like tokenization, stemming.	Advanced NLP tasks like deep semantic parsing.
Testing	Suitable for basic testing and prototypes.	Comprehensive testing of complex model behaviors.

Resources

https://heidloff.net/article/llm-languages-german/

https://huggingface.co/jphme/Llama-2-13b-chat-german

https://www.deepset.ai/german-bert

