



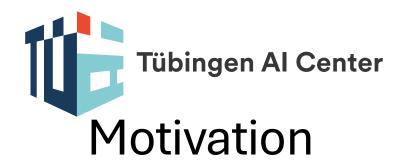
in cooperation with MAX PLANCK INS



Ori Press^{*1}, Andreas Hochlehnert^{*1}, Ameya Prabhu¹, Vishaal Udandarao¹, Ofir Press^{‡2}, Matthias Bethge^{‡1}

¹University of Tübingen, ²Princeton University; */[‡]shared first/last authorship







Large Language Models (LLM) have shown good results in many benchmarks

 Current multiple-choice QA benchmarks do not reflect the realworld use of LLMs

-> CiteME a benchmark that tests reasoning in the context of scientific claim attribution.







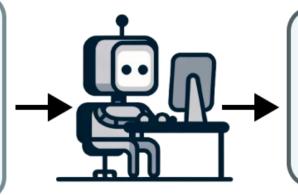


130 Questions

Human accuracy: 69.7% | GPT-4o accuracy: 0%

Find the paper cited in this text:

"ESIM is another high performing model for sentence-pair classification tasks, particularly when used with ELMo embeddings [CITATION]"



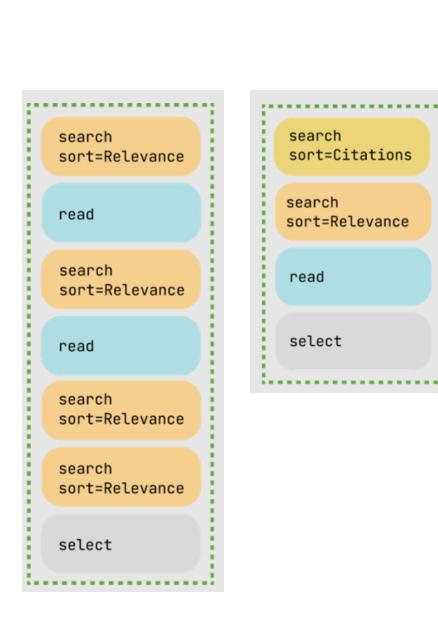
After searching, I think the cited paper is:

"Deep contextualized word representations"





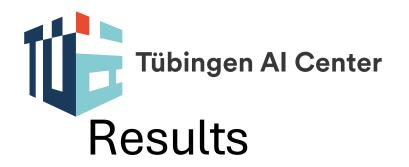
- LLM backbone (GPT-40, Claude 3, ...)
- Receives CiteME excerpt
- Tools
 - Search (by relevance/citation count)
 - Read (get entire paper content)
 - Select (choose paper from searches)















			Method				
			GPT-40	LLaMA-3-70B	Claude 3 Opus	SPECTER2	SPECTER
mmands	No Commands	w/o Demo	0	4.2	15.1	0	0
		w/ Demo	7.6	5.9	18.5	_	_
	Search Only	w/o Demo	26.1	21.0	26.1	_	_
		w/ Demo	29.4	2.5	27.7	_	_
ບິ	Search and Read	w/o Demo	22.7	N/A	27.7	_	_
		w/ Demo	35.3	N/A	26.1	_	_

Results for o1-preview and Claude-3.5 can be found in the paper or at the poster presentation

