	doc_1		doc_2		decision	id
cases	authors	 Zhang, Linhan Chen, Qian Wang, Wen Deng, Chong Cao, Xin Hao, Kongzhang Jiang, Yuxin 	authors	 Linhan Zhang Qian Chen Wen Wang Chong Deng Xin Cao Kongzhang Hao Yuxin Jiang Wei Wang 		
		• Wang, Wei	title	Weighted Sampling for Masked Language Modeling		
	title	Weighted Sampling for Masked Language Modeling	source	SupportedSources.INTERNET_ARCHIVE	_	
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	volume		urls	• https://web.archive.org/web/20230307164702/https://arxiv.org/pdf/2302.14225v1.pdf		
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	urls	https://openalex.org/W4322759629	id	id-9052867076117471036		
		• https://doi.org/10.48550/arxiv.2302.14225		Masked Language Modeling (MLM) is widely used to pretrain language models. The standard random masking strategy in MLM causes the pre-trained language models (PLMs) to be biased toward high-frequency tokens. Representation learning of rare tokens is poor and PLMs have limited performance on downstream tasks.		
	id	id7715361091835219495	abstract	To alleviate this frequency bias issue, we propose two simple and effective Weighted Sampling strategies for masking tokens based on the token frequency and		
	abstract	abstract		training loss. We apply these two strategies to BERT and obtain Weighted-Sampled BERT (WSBERT). Experiments on the Semantic Textual Similarity benchmark (STS) show that WSBERT significantly improves sentence embeddings over BERT. Combining WSBERT with calibration methods and prompt learning further		
	versions			improves sentence embeddings. We also investigate fine-tuning WSBERT on the GLUE benchmark and show that Weighted Sampling also improves the transfer		
				learning capability of the backbone PLM. We further analyze and provide insights into how WSBERT improves token embeddings.		
			versions			