cases	doc_1		doc_2		decision	id
			authors	• Jinwoo Shin • Jaeho Lee • Kimin Lee • Sangwoo Mo • Seung Jun Moon	DUPLICATES	268
	authors	• Seung Ki Moon • Sangwoo Mo • Kimin Lee • Jae-Ho Lee • Jinwoo Shin	**title**	MASKER: Masked Keyword Regularization for Reliable Text Classification		
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	doi	10.1609/aaai.v35i15.17601	**urls**	• https://arxiv.org/pdf/2012.09392v1.pdf • https://github.com/alinlab/MASKER		
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	id	id-3003058014721985410	**abstract**	Pre-trained language models have achieved state-of-the-art accuracies on various text classification tasks, e.g., sentiment analysis, natural language inference, and semantic textual similarity. However, the reliability of the fine-tuned text classifiers is an often underlooked performance criterion. For instance, one may desire a model that can detect out-of-distribution (OOD) samples (drawn far from training distribution) or be robust against domain shifts. We claim that one central obstacle to the reliability is the over-reliance of the model on a limited number of keywords, instead of looking at the whole context. In particular, we find that (a) OOD samples often contain in-distribution keywords, while (b) cross-domain samples may not always contain keywords; over-relying on the keywords can be problematic for both cases. In light of this observation, we propose a simple yet effective fine-tuning method, coined masked keyword regularization (MASKER), that facilitates context-based prediction. MASKER regularizes the model to reconstruct the keywords from the rest of the words and make low-confidence predictions without enough context. When applied to various pre-trained language models (e.g., BERT, RoBERTa, and ALBERT), we demonstrate that MASKER improves OOD detection and cross-domain generalization without degrading classification accuracy. Code is available at https://github.com/alinlab/MASKER.		
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