ID	title	topic	link
	Exploring Transformers as Compact, Data-efficient Language		
1	Models	data efficiency	https://aclanthology.org/2023.conll-1.35/
	InsCL: A Data-efficient Continual Learning Paradigm for Fine-		
2	tuning Large Language Models with Instructions	data efficiency	https://aclanthology.org/2024.naacl-long.37/
	Rephrasing the Web: A Recipe for Compute and Data-Efficient		
3	Language Modeling	data efficiency	https://aclanthology.org/2024.acl-long.757/
4	How to Train Data-Efficient LLMs	data efficiency	https://arxiv.org/abs/2402.09668
	STAR: Constraint LoRA with Dynamic Active Learning for Data-	data & model	
5	Efficient Fine-Tuning of Large Language Models	efficiency	https://aclanthology.org/2024.findings-acl.209/
		model efficiency	
	AutoPEFT: Automatic Configuration Search for Parameter-Efficient	(longer paper, 13	
6	Fine-Tuning	pages!)	https://aclanthology.org/2024.tacl-1.29/
	Unlocking Efficiency in Large Language Model Inference: A	model efficiency	
7	Comprehensive Survey of Speculative Decoding	(inference)	https://aclanthology.org/2024.findings-acl.456/
	LRQuant: Learnable and Robust Post-Training Quantization for	model efficiency	
8	Large Language Models	(inference)	https://aclanthology.org/2024.acl-long.122/
	LoRA-drop: Efficient LoRA Parameter Pruning based on Output	model efficiency	
9	Evaluation	(training)	https://aclanthology.org/2025.coling-main.371/
	MoSLD: An Extremely Parameter-Efficient Mixture-of-Shared	model efficiency	
10	LoRAs for Multi-Task Learning	(training)	https://aclanthology.org/2025.coling-main.111/
	A Study of Parameter Efficient Fine-tuning by Learning to		- https://aclanthology.org/2024.findings-
11	Efficiently Fine-Tune	tuning)	emnlp.929.pdf
		data efficiency (fine-	
	RECOST: External Knowledge Guided Data-efficient Instruction	tuning on synthetic	https://aclanthology.org/2024.findings-
12	Tuning	data)	acl.648.pdf
		data efficiency (fine-	
	Self-play fine-tuning converts weak language models to strong	tuning on synthetic	
13	language models	data)	https://arxiv.org/pdf/2401.01335
	MEDUSA: Simple LLM inference acceleration framework with	model efficiency	
14	multiple decoding heads	(inference)	https://arxiv.org/pdf/2401.10774
		model efficiency	
15	OneBit: Towards Extremely Low-bit Large Language Models	(compression)	https://arxiv.org/pdf/2402.11295

	Quantized Side Tuning: Fast and Memory-Efficient Tuning of	model efficiency	
16	Quantized Large Language Models	(compression, PEFT)	https://aclanthology.org/2024.acl-long.1.pdf
	FreeAL: Towards Human-Free Active Learning in the Era of Large		
17	Language Models	data efficiency	https://aclanthology.org/2023.emnlp-main.896
	MELM: Data Augmentation with Masked Entity Language Modeling		
18	for Low-Resource NER	data efficiency	https://aclanthology.org/2022.acl-long.160/
	Does the Order of Training Samples Matter? Improving Neural		
19	Data-to-Text Generation with Curriculum Learning	data efficiency	https://aclanthology.org/2021.eacl-main.61.pdf
	Applying Natural Annotation and Curriculum Learning to Named		
	Entity Recognition for Under-Resourced Languages	data efficiency	https://aclanthology.org/2022.coling-1.394.pdf
21	Do We Need to Create Big Datasets to Learn a Task?	data efficiency	https://aclanthology.org/2020.sustainlp-1.23/
	NLP From Scratch Without Large-Scale Pretraining: A Simple and		https://proceedings.mlr.press/v162/yao22c/yao2
22	Efficient Framework	data efficiency	2c.pdf
	Distilling Step-by-Step! Outperforming Larger Language Models	data & model	
23	with Less Training Data and Smaller Model Sizes	efficiency	https://arxiv.org/pdf/2305.02301.pdf
	ATTEMPT: Parameter-Efficient Multi-task Tuning via Attentional	model efficiency	
24	Mixtures of Soft Prompts	(PEFT)	https://aclanthology.org/2022.emnlp-main.446
		model efficiency	https://proceedings.mlr.press/v97/houlsby19a/h
25	Parameter-Efficient Transfer Learning for NLP	(PEFT)	oulsby19a.pdf
0.0	SPoT: Better Frozen Model Adaptation through Soft Prompt	model efficiency	
26	Transfer	(PEFT)	https://aclanthology.org/2022.acl-long.346
27	The Dower of Scale for Deremator Efficient Dremat Tuning	model efficiency	https://polanthalagy.org/2021.omplp.main.242
27	The Power of Scale for Parameter-Efficient Prompt Tuning SparseGPT: Massive Language Models Can be Accurately Pruned	(PEFT) model efficiency	https://aclanthology.org/2021.emnlp-main.243
20	in One-Shot	(compression)	https://arxiv.org/pdf/2301.00774.pdf
20	An Efficient Memory-Augmented Transformer for Knowledge-	model efficiency	11(tps://aixiv.org/pui/2501.00774.pui
29	Intensive NLP Tasks	(inference)	https://arxiv.org/pdf/2210.16773.pdf
20		model efficiency	11(p3.//d/x).01g/pd//2210.10//0.pdf
30	Hyperdecoders: Instance-specific decoders for multi-task NLP	(PEFT)	https://arxiv.org/pdf/2203.08304.pdf
00		model efficiency	https://proceedings.mlr.press/v162/he22f/he22f.
31	HyperPrompt: Prompt-based Task-Conditioning of Transformers	(PEFT)	pdf
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PERFECT: Prompt-free and Efficient Few-shot Learning with 32 Language Models

33 Learning to Compress Prompts with Gist Tokens

model efficiency (training, inference) https://arxiv.org/pdf/2204.01172.pdf model efficiency (inference) https://arxiv.org/abs/2304.08467