

on Learning Representations

- classification and regression SSL tasks.





abel	FlexMatch		SoftMatch/FreeMatch		Average	
+SR	Base	+SR	Base	+SR	Gain	Speed.
.33 ±0.97	$36.83{\scriptstyle\pm0.51}$	$32.58{\scriptstyle\pm0.51}$	32.71 ± 0.82	29.71±0.64	+4.11	×1.73
.65±0.32	$27.75{\scriptstyle\pm0.41}$	$25.92{\scriptstyle\pm0.31}$	29.07 ± 1.27	25.98±0.49	+2.06	×2.07
$.24{\pm}0.82$	$26.29{\scriptstyle\pm0.17}$	$25.63{\scriptstyle\pm0.28}$	$29.39{\scriptstyle\pm1.83}$	26.10±0.83	+1.77	×1.30
.47±0.65	37.88 ± 0.46	$36.06{\scriptstyle\pm0.93}$	$37.68{\scriptstyle\pm1.82}$	$34.97{\scriptstyle\pm1.02}$	+1.93	×1.70
$.27{\pm}0.65$	$23.78{\scriptstyle\pm0.46}$	$23.45{\scriptstyle\pm0.93}$	23.78 ± 0.13	$19.39{\scriptstyle\pm0.33}$	+2.30	×1.08
.90 ±0.21	13.08±3.94	12.60±0.69	$11.69{\scriptstyle\pm0.12}$	$10.67{\scriptstyle\pm0.90}$	+0.93	×2.77
.10±0.58	12.08 ± 0.73	$11.05{\scriptstyle\pm0.14}$	11.75 ± 0.17	$10.02{\scriptstyle\pm0.82}$	+1.78	×2.30
.08 ±0.40	$34.73{\scriptstyle\pm0.09}$	33.64±0.73	$33.02{\pm}0.02$	$30.92{\scriptstyle\pm0.90}$	+0.99	×1.80
.50±0.42	31.06 ± 0.32	$29.97{\scriptstyle\pm0.10}$	30.34 ± 0.18	$29.11{\scriptstyle \pm 0.15}$	+0.99	×3.53
.99 ±0.14	$46.09{\scriptstyle\pm0.15}$	42.76±0.33	$43.91{\scriptstyle\pm0.19}$	42.68±0.12	+2.55	×1.40
.08 ±0.15	40.38 ± 0.33	37.58±0.19	40.43 ± 0.12	$\textbf{38.43}{\scriptstyle\pm 0.14}$	+2.26	×1.01
.94 ±0.57	25.72 ± 0.35	23.74±1.39	21.07 ± 0.72	20.06±0.41	+1.28	×1.04
.84±0.20	17.80 ± 0.57	$17.59{\scriptstyle\pm0.35}$	15.97 ± 0.24	$15.62{\scriptstyle\pm0.71}$	+0.63	×1.57
.37±0.47	11.82 ± 0.51	10.20±1.11	17.51 ± 0.61	9.72±0.62	+4.19	×1.07
.88 ±1.48	7.13 ± 0.20	$7.59{\scriptstyle \pm 0.57}$	8.10 ± 0.35	7.10±1.39	+0.30	×1.11
. 65 ±0.41	5.54 ± 0.16	4.86 ±1.00	5.51±0.54	4.22 ± 0.34	+1.19	×1.036
33 ±0.33	4.51 ± 0.24	$3.88{\scriptstyle\pm0.69}$	5.46 ± 0.34	3.94±0.71	+2.21	×1.13
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OB-WIKI	AgeDB		ing speedup times on ImageNet				
E MAE	RMSE MAE		with 100 labels per class.				
$1.1411.52\pm0.09$	14.51 ± 0.13	11.77 ± 0.27	Method	Top-1	Gain	Speedup	
$1.2211.44\pm0.53$	14.76 ± 0.12	$11./1\pm0.53$	FixMatch	43.66	+0.00	$\times 1.00$	
$1.12 \text{ I I } .35 \pm 0.12$	14.76 ± 0.14	11.92 ± 0.09	FixMatch+SR	41.72	+1.94	×1.98	
$0.6411.66{\pm}0.32$	$[14.99 \pm 0.99]$	12.07 ± 0.48	FlexMatch	41.85	+0.00	$\times 0.00$	
$0.2318.77 \pm 0.43$	20.42 ± 0.10	17.11 ± 0.49	FreeMatch	40.57	+1.28	$\times 1.50$	
).53 10.91 ± 0.12	$ 14.01{\pm}0.12 $	10.77 ± 0.22	SoftMatch	40.52	+1.33	×1.46	
-0.53	-0.75	-0.94	FlexMatch+SR	40.36	+1.49	×2.35	