

Table 1: Datasets Statistics

	de	jp	in	fr	ca	mx	uk	us
# users	2,665	715	283	1,089	655	1,164	8,988	155,061
# items	402	221	260	426	967	756	926	7,685
# inter	6,553	1,845	845	2,844	55,045	3,073	29,660	499,175

Table 2: Overall Performance Comparison Table. The best and second-best results are bold and underlined, respectively. “Improv.” indicates the relative improvement ratios of the proposed approach over the best performance baselines. “*” denotes that the improvements are significant at the level of 0.05 with paired t -test. BERT means using BERT to generate item embedding.

	nDCG@10							HR@10						
	de	jp	in	fr	ca	mx	uk	de	jp	in	fr	ca	mx	uk
SASRec	0.5423	0.3535	0.2335	0.2114	0.1422	0.2920	0.5122	0.8041	0.5312	0.4043	0.4283	0.2248	0.5030	0.7287
MAML	0.5832	0.3845	0.3195	0.3316	0.1531	0.3432	0.5735	0.8123	0.5526	0.4835	0.5137	0.2448	0.5239	0.7145
FOREC	0.5888	0.3914	0.3053	0.3400	0.1528	0.3555	0.5958	0.8103	<u>0.5623</u>	0.4901	0.5345	0.2685	<u>0.5332</u>	0.7199
MA	0.6023	<u>0.4136</u>	0.3212	0.3646	0.1613	<u>0.3601</u>	0.5893	0.8385	0.5617	<u>0.5101</u>	0.5449	0.2813	0.5256	0.7387
UnisRec _{BERT}	<u>0.6534</u>	0.3772	<u>0.3313</u>	<u>0.3719</u>	<u>0.1626</u>	0.3215	<u>0.6034</u>	<u>0.8432</u>	0.5332	0.4983	<u>0.5585</u>	<u>0.2914</u>	0.5128	<u>0.7423</u>
CAT-SR _{BERT}	0.7636*	0.4359*	0.3560*	0.4467*	0.2089*	0.3627	0.6968*	0.8532	0.5980*	0.5674*	0.6103*	0.3456*	0.5443	0.7998*
Improv.	+16.70%	+5.67%	+7.07%	+20.11%	+28.47%	+0.72%	+15.48%	+1.19%	+6.35%	+11.23%	+9.27%	18.60%	+2.08%	+7.75%