

Table u1: Statistics on the Douban Dataset. (min-median-max) values are provided for $|U_d|$, $|I_d|$ and $|R_d|$.

Dataset	$ U $	$ U_d $	$ I_d $	$ R_d $	avg (sparsity)
Douban	2,666	1,344 - 1,878 - 2,630	7,146 - 8,660 - 20,964	77,044 - 105,030 - 1,248,838	1.2377%

Table u2: The recommendation performance on Douban. The best result for the same setting is marked in bold and the second best is underlined. Single Domain represents FedGNN.

Model	Book				Movie				Music			
	HR@5	NDCG@5	HR@10	NDCG@10	HR@5	NDCG@5	HR@10	NDCG@10	HR@5	NDCG@5	HR@10	NDCG@10
Single Domain	0.1933	0.1177	0.3088	0.1640	0.5947	0.4476	0.7319	0.4233	0.2254	0.1519	0.3408	0.1806
EMCDR	0.2316	0.1263	0.2923	0.1450	0.6072	0.3872	0.7209	0.4238	0.2075	0.1213	0.3363	0.1601
PriCDR	0.2119	0.1194	0.3029	0.1472	0.6295	0.3766	0.6958	0.3890	0.2009	0.1237	0.3289	0.1679
FedCT	0.2327	0.1265	0.2812	0.1424	0.6247	0.3887	0.7122	0.4165	0.2031	0.1168	0.3356	0.1577
FedCDR	0.1912	0.1145	0.3089	0.1516	0.5338	0.3546	0.6490	0.3918	0.2262	0.1396	0.3415	0.1744
FedGCDR-DP	0.2364	0.1421	<u>0.3152</u>	0.1748	<u>0.6304</u>	0.4049	0.7460	0.4388	<u>0.2493</u>	0.1589	<u>0.3467</u>	<u>0.1877</u>
FedGCDR	<u>0.2348</u>	<u>0.1389</u>	0.3227	<u>0.1710</u>	0.6354	0.4008	<u>0.7414</u>	<u>0.4337</u>	0.2597	0.1684	0.3594	0.1987