Light FM SMALL(1%)

Max_iteration	Reg_para	Ranks	time	PrecisionAt100
			4.24082541	
5	0.01	100	5	0.07999999821
			5.03538131	
10	0.01	100	7	0.1285384595
			8.45032525	
15	0.01	100	1	0.1473077089
			11.9332284	0.1507600040
20	0.01	100	9	0.1537692249
		400	14.4452769	0 160760000
25	0.01	100	8	0.1627692282
30	0.01	100	14.1101920	0.16553846
30	0.01	100		0.10333040
35	0.01	100	16.1712331	0.1676923037
	0.01	100	18.1891074	0.1070323037
40	0.01	100	2	0.1688461602
10	0.01	100	20.3536415	0,1000101001
45	0.01	100	1	0.1703846157
			22.9787781	
50	0.01	100	2	0.1701538414
			time	PrecisionAt100
25	0.005	100	10.5194819	0.2296153903
25	0.001	100	10.553864	0.2330769151
			11.5706694	
25	0.01	100	1	0.1627692282
			11.6284244	
25	0.05	100	1	0.00307692308
25	0.1	100	11.5631876	0.009999999776
			11.8612608	
25	1	100	9	0.1624615341

			5.62241578	
25	10	100	1	0.04438461363
			4.14486718	
25	0.01	10	2	0.2346153855
			10.5953085	
25	0.01	50	4	0.2400769293
			10.3451185	
25	0.01	100	2	0.2330769151
			15.2992842	
25	0.01	150	2	0.2285384536
			19.7520213	
25	0.01	200	1	0.2166922987

Light FM Medium

when max iteration is 25, reg para is 0.0005, and rank is 100 running time is 970.1552591323853 the Precision at 100 is 0.1948988139629364 when max iteration is 25, reg para is 0.001, and rank is 100 running time is 974.5293567180634 the Precision at 100 is 0.06576398760080338 when max iteration is 25, reg para is 0.01, and rank is 100 running time is 1010.5985140800476 the Precision at 100 is 0.00028876762371510267 when max iteration is 25, reg para is 0.05, and rank is 100 running time is 1017.5408227443695 the Precision at 100 is 0.0008117325487546623 when max iteration is 25, reg para is 0.1, and rank is 100 running time is 1025.7166633605957 the Precision at 100 is 0.0009811277268454432 when max iteration is 25, reg para is 1, and rank is 100 running time is 1058.9258248806 the Precision at 100 is 0.007850159890949726

Light FM Medium

when max iteration is 15, reg_para is 0.001, and rank is 100 running time is 612.8246600627899 the Precision at 100 is 0.04661436751484871 when max iteration is 15, reg_para is 0.01, and rank is 100 running time is 639.8918566703796 the Precision at 100 is 0.00028990450664423406

when max iteration is 15, reg_para is 0.05, and rank is 100 running time is 641.5064990520477 the Precision at 100 is 0.0008117325487546623 when max iteration is 15, reg_para is 0.01, and rank is 100 running time is 631.054621219635 the Precision at 100 is 0.00028990450664423406

Light FM Medium

when max iteration is 15, reg_para is 0.01, and rank is 10 running time is 151.14958906173706 the Precision at 100 is 0.00013074124581180513 when max iteration is 15, reg_para is 0.01, and rank is 50 running time is 367.12643027305603 the Precision at 100 is 0.0001762164756655693 when max iteration is 15, reg_para is 0.01, and rank is 100 running time is 631.7152509689331 the Precision at 100 is 0.00028990450664423406 when max iteration is 15, reg_para is 0.01, and rank is 150 running time is 890.8563482761383 the Precision at 100 is 0.00025011366233229637

LightFM small

Max iter	reg_para	rank	precisionat100	time
				3.82416796
15	0.005	50	0.2417692393	7
				3.31751203
15	0.001	50	0.239230752	5
				3.38429403
15	0.01	50	0.2417692393	3
				3.56970524
15	0.05	50	0.1744615436	8
			0.0035384616	3.60466313
15	0.1	50	35	4
			0.0091538457	3.72133159
15	1	50	2	6
			0.0219230763	3.77430033
15	10	50	6	7

lightfm			time	precisionAt100	
25	0.005	100	10.5194819	0.22961539	

				03
25	0.001	100	10.553864	0.23307691 51
25	0.001	100		
			11.5706694	0.16276922
25	0.01	100	1	82
			11.6284244	0.00307692
25	0.05	100	1	308
				0.00999999
25	0.1	100	11.5631876	9776
			11.8612608	0.16246153
25	1	100	9	41
			5.62241578	0.04438461
25	10	100	1	363
			4.14486718	0.23461538
25	0.01	10	2	55
			10.5953085	0.24007692
25	0.01	50	4	93
			10.3451185	0.23307691
25	0.01	100	2	51
			15.2992842	0.22853845
25	0.01	150	2	36
			19.7520213	0.21669229
25	0.01	200	1	87

			precisionat100	time
				3.82416796
15	0.005	50	0.2417692393	7
				3.31751203
15	0.001	50	0.239230752	5
				3.38429403
15	0.01	50	0.2417692393	3
				3.56970524
15	0.05	50	0.1744615436	8
			0.0035384616	3.60466313
15	0.1	50	35	4
15	1	50	0.0091538457	3.72133159

				2	6
I				0.0219230763	3.77430033
ı	15	10	50	6	7

N.A. alliana								
Medium Validation	maxiter	regpara	rank	rmse	map	ndcgAt	prec_k	time
								288.6063
	15	0.01	10	0.822664	6.86E-07	1.53E-05	1.14E-05	399
					0.000662			
	15	0.01	50	0.85733	4	0.006625	0.00442	901.271
	15	0.01	100	0.86097	0.00343	0.02228	0.010958	1035.133
								1931.537
	15	0.01	150	0.854	0.0063	0.036689	0.01727	4
							0.000136	
	15	0.001	50	1.00163	9.67E-06	0.000182	4	656.633
					0.000662			
	15	0.01	50	0.85733	4	0.006625	0.00442	901.271
	15	0.05	50	0.79	0.00258	0.02415	0.014159	414.44
						0.001557	0.000859	
	15	0.1	50	0.8109	7.60E-05	635255	38388	731.794