

Event

Rating, purchase, click, watch, ...

value

user

Demographics, ...

item


Price, category, ...



Users: \mathcal{U}

Matrix: R

Items: \mathcal{I}

						
	5		1	1		2
		2		4		4
	4	5		1	1	2
			3	5	2	
	2		1		4	4



Recommender



Top-k recommendations



⋮