















Learning the similarity weights

					
	9	6	8	4	
	2	10	6		8
	5	9		10	7
	?	10	7	8	?




Ratings Matrix

Similarity weights: 0.4 (User 1 to User 2), 0.9 (User 1 to User 3), 0.7 (User 1 to User 4)

Creating the weighted ratings matrix






		
	9	
	2	8
	5	7

Ratings Matrix Subset




	Similarity Index
	0.4
	0.9
	0.7

Similarity Matrix






=

		
	3.6	
	1.8	7.2
	3.5	4.9

Weighted Ratings Matrix





	Similarity Index
	0.4
	0.9
	0.7

Similarity Matrix

		
	3.6	
	1.8	7.2
	3.5	4.9




Weighted Ratings Matrix

sum_similarityIndex Σ

			Weight Sum
		12.1	(0.9+0.7)
	8.9		(0.4+0.9+0.7)

Rating and Weight Matrix

sum_weightedRating Σ

		
	4.4	7.5

Recommendation Matrix