Recommender System 23-4053

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Dort	1	0
Part	1	9

raol I.	Hemil	ikm2	ikm3	Hem 4	Hem 5	Mean.	
a) luser 1	?	3	?	3	4	3.33	34
user 2	4	2	?	2	?	3	
user 3	?	?	3	2	?	3.	1
user 4	3	?	4	? .	3	3.83	
user 5	4	3	?	4	4	3.75	

$$= \frac{(3-3\cdot33)(2-3)}{(3^{2}-3\cdot33)^{2}} = 1$$

$$\Rightarrow User 1 = user 84.$$

$$= (4-3.33) (3-3.33) = -1$$

$$(4-3.33)^{2} (3-3.33)^{2}$$

b) User 2 marest user 1 & usera user 2 & u. 27 5 : Usys nearest neighbor User 1 & user 5 : 0.49 User 5 & user 2: 0 User 5 & user 89: = (3-3.33) (4-3.95) + (3.333) (4-3.75 = -1 -1 (3-3:33)2+(3-3:23)2 (14-3:75)2+(4-3:25) = 2.66 2 3

	. 14				
	item I	Hem2	ikm3	den 4	dem 5
e) user 1	?	-0.33		-0.33	0.67
usera	.1		2	-1	?
		?		?	7
User 3	7 -0.33		0.67	?	-0.33
User 4	0.25			0-25	0-25
			2/4	,	
1) R (U3, I.	2)	7			The second second
ikm Z & ikin		,		- 1	J. Mary J. Mary J. Mary S.
Adj Cosme (18		10-	25) (-	0-75)	= -1
J	,	100	152 V	-0.752	
ikm 2 5 1km	n3 o	1			
-1		= No	of pos	sbe	
Adj Cosine [I			1.		
skyn 2 & ikn		1-	A - 221	1-0-23	1+6-0.75(0.25)
Adjourne (I)	2, 14/ =	- /	0 35)	(-03)	1022 1000
		1-0	1.33 7	1-0-5	1-0-33× +0 25
	=	-0	93.		
km 2 & 1km	n5 g				
edi Cosne (I	2, IS) =	1-0	3)10	67)+1	-O-FS) (0·25)
1		1-0	33 +	-038	10.07+0.352
	_	-0-			
" 11 9	ilen c				
And had a first to the first to	item 5	and the second second second second	Charles and the control of the contr	4 1/1 1	
R(U3, I2	1= 1	Not poss	1the		

item $4 \le 1 \text{lem } 1 : \frac{(-1)(1) + (0.25)(0.25)}{\sqrt{(-1)^2 + (0.25)^2}} \sqrt{1^2 + 0.15^2}$ = -0.90item $4 \le 1 \text{lem } 2 : --0.23$ 1/2m 4 & 1km 8: (033/067) + (025)(0.25) \[\langle -0.33 \rangle 067) + (025) \frac{1067)^2 + (015)^2}{2} \langle \langle 05 \rangle 2 \langle 15 \rangle 2 \langle 15 \rangle 2 \langle 15 \rangle 2 \langle 2 \langle 2 \langle 2 \langle 3 \langle 2 \langle 3 \langle 2 \langle 2 \langle 3 \langle Man contrad prediction tunction? R44 = 3.33 + 3 -10.28 (-0.33)(-0.53) = 3.66 × 4. Using mode as a base line depends on make of structured of clotha. Model will gave bother and effective performance it doors is highly alleved or has outhers. It can perform better in such seener to thon near.