9/18 Roc Systems Rec using content based method Find ileas w/ large sim to a users Pref Given user U

find item i st (u,i) = 0

w/ max sim (u.prof, i.prof) How do we find item my "may sim" 1. preprocess interns into some sputial searching data structure by key i. proff or raybe a few more a. Seach data structure for K (approx) close entries b. filer ikene already of interest Co pick most similar from remainder E.g RS(u)

1. u. profile
2. produce 2k close Hens

sin (u. profile, i. sim (u. proble , ij . prof. b) in top 2k (i, i, i, i, --) d = sim (HP, prot, U. prot) 6 = Sim (H3, prot, U. prot) a > 6 (HP2 , HP3 , ---)

Collaborative Filering

Don't monually find features

tigh level - each user is represented by a row from utility matrix

- recoved for user u

1. find users $U = \{u'_1, -, u'_k\}$ sim to u

2. recommend item:

2. recommend iten i

from u; eU

that u; is interessete in lut (u,i) = 0

Measing sim

	HP1	HP2	HP3	TW	SW1	SW2	SW3
\overline{A}	4			5	1		
B	5	5	4				
C				2	4	5	
D		3					3
	'						

Some examples for considering picking dist

1. A & C TW & SWI very dift and should be for agart

2. A& B HP1 very simmiler (and not much else to go off)

Jaccard Sim Given 2 sets X Y Join (+, Y) = 1xn Y) [XVY] Jsing (+, y) = 1 - Jsin (x, y) How to use Jacuard Sim W/ non-set data
Round!
- ratings 3 and above are interested
- ratings below 3 are uniterested