MOD AKINA EDR - MSIL 1 #

11 1770

(PIO 10 v.) threshold = 30 (2)

i-7 75062 P.3 MINT ON: Ci

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C1 = { {a}, {b}, {c}, {id}, {e}, {f}}

L1 = { a, b, c, d, e}

C2 = { {a,b}, {a,c}, {a,d}, {a,e}, {b,c}, {b,d}, {b,e}, {cd}, {cd},

=> L= UL; : PD Frequent Itemsets -D

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: 2 Mel
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interest plan yet to ple RIX-14 pino Ne Pou a NOICHOLD PID MYSEN POLISIE X FEIDESILE (\$ = XNY : e 0131 Lz = lcm((U Z3) : (NO) · P. PINL IDD) · confidence (X-Y) = Support (XUY) = -Support (X) : you will sex enose plan yer & plan 1.000 plans Lxuy = Lx psi Lxusy3 = Lx confidence (X-4) = 1:25 pin boo pay islc » * Were you ship kair &= Y ICH way salled DUILIJI, N: X= ONX (P) 0 100 () threshold = 700 (6) Icin (xe[100] 7106) X= EX3 : frequent Items -: Plc frequent Item Support (X) = Support (SX3) = 100/Lx] = 100/x > 5 frequent (di) { x3, x∈[30] 110 ps . x = 100 = 20 pp/c Ks (x + y, x, y = [100] no6) X = [x, y3 : frequent Pairs -: Ple frequent pair (ci) Support(X) = Support(Sx,y3) = 100/LEX,13 >5 X=20 isk . lcm (xiy) = 20 10 p (xiy) 20 DNIS

Y=20 16 y=[[x]]: Ple y no frequent Pair-N 7171

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Support ([s,73]) $\begin{bmatrix} \frac{100}{70} \\ 70 \end{bmatrix}$ = 1 A) Conf ([s,73] -2) = Support ([s,73]) = $\begin{bmatrix} \frac{100}{35} \\ 35 \end{bmatrix}$ = $\begin{bmatrix} \frac{100}{35} \\ 35 \end{bmatrix}$ = $\begin{bmatrix} \frac{100}{35} \\ \frac{100}{35} \end{bmatrix}$ = $\begin{bmatrix} \frac{100}{35} \\ \frac{100}{3$

: 3 note

Interest (X-Y) = Conf (X-Y) - Support (Y) =

= Support(XUY) support(Y) = *

Support (X) = Support(Ex3xeX) = TTX : Sk Not teple polled

support (XUY) = support (X) support (Y) 1/11

= TT & - TT & = 0

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W

Jaccard Similirity.

$$J(A_1B) = 8$$

$$J(B_1C) - 8$$

$$J(A_1C) = 9$$

$$J(A_1D) = 6$$

$$J(C_1D) = 8$$

Cosine Similarity

(#) IIAII =
$$180^{\circ}$$
, $11811 = \sqrt{55^{\circ}}$, $11011 = \sqrt{44^{\circ}}$, $11011 = \sqrt{85^{\circ}}$
 $Cos(A_{1}B) = \frac{42}{80.55^{\circ}} \approx 0.633$
 $Cos(A_{1}C) = \frac{39}{80.44^{\circ}} \approx 0.657$
 $Cos(A_{1}D) = \frac{81}{80.85^{\circ}} \approx 0.982$
 $Cos(B_{1}C) = \frac{30}{55.44^{\circ}} \approx 0.609$
 $Cos(B_{1}C) = \frac{46}{55.85^{\circ}} \approx 0.952$

Centered Cosine Similirity

$$\cos (A_1B) \approx 0.658$$
 $\cos (B_1C) \approx 0.613$
 $\cos (A_1C) \approx -0.808$
 $\cos (B_1D) \approx 0.602$
 $\cos (A_1D) \approx 0.888$
 $\cos (A_1D) \approx -0.058$

: Then les centered cosine similirity pr p IND PLAND DUNAN. PIZITIBAN PIDONN ILLE YSINNA Filting Del fine , Ja (1000 dias 1) 210 /2 WILDOW ENVIET USE 100 MAL AM EEL IN LA CEULDA pli cosine similirity PRISHEN . 1230 ME POKE, PILIUND . DAJER El THEUDE NEW pay cosine similarly 110 . 1200 DA

Prediction of User A's rating of itemf, with user-user collaborative filtering) (INI=2, predicted score weighted by similirity) IPIDAN Sim (X,Y) - SXY INO) PINISO PENDEND & Similarity - of 1000 06 GIM I A SECSI SIL + RA: D, B. NAG"A: P 1xt = SAB · TB+ SAC · CF - 0658 x 9 -0.208 = 2.0462

2 16 Pyry (x1, y1), , (xn, yn) 1010 11000 PEN 1000 6 plant 03pm XIX : PBND 16pme P. Men $R' := \frac{1}{2} \sum_{i} (x_i - \overline{X}) (y_i - \overline{X}) \qquad (A1375 A381N)$ · V Z (xi-x) 2 [yi-y) = *

PIX LE MILES ACI FIX CUMPILLIECINE PI XIÀ JOLO Sport 330 poins null sob pe MEM THE from : PESNO MA YSIMM GOOM ICS NULL -1; NULL + V = V, NULL X NULL = NULL ripula Elliz Binn proun centered cosine similarity Prints F= 7-7 (NULL WILE) EINSON WIC PROPRI (PULL 1970) Centered Cosine Similarity (X,y) = (x-x)(y-y) $= \sum_{i} (x_i - \overline{x}) (y_i - \overline{y}) / \overline{Z} (x_i - \overline{x})^2 \sqrt{Z} (y_i - \overline{y})^2$

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