20K-0212 BSCS - 6B Recommender Systems Assignment I Moan 5 ilem ! 4 3.33 user -0.33 -0.33 0.67 7 3 1 2 3 7 7 0 3 3-33 7 0.67 -0.33 -0.333.75 5 0.25 -0.75 ? 0.25 0.25 a) reason correlation b/w: U, and U2 = (-D.33)(-1) 4: 7 J(0.33) 2 J(-1)2 calculated U, and U3 = cannot be U, and U4 = 0.67 x - 0.33 -1 0.67 x 0.33 U, and U5: (-0.33)(-0.75) + (-0.33)(0.25) + (0.67)(0.25) = 0.491  $\sqrt{(0.33)^2 + (0.33)^2 + (0.64)^2} \sqrt{(0.75)^2 + (0.25)^2 + (0.25)^2}$ The two nearest neighbors are of UI are Uz and Us 6) Since both heavest heighbours of U, have not rated ilem 3, we will consider the new heatert nightous which in this case will become Uz and Uy. Shire These y no nature for a peasson correlation with Uz, we will

3.33+ 0.67 × 0.491 : 0.67 ~ 1 sating 2.66 ~ 3
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c) Since Us has no items raced besides item's, it is
not possible to carculate item similarity. Hence, we
will first calculate the natures of U3 I, U3 I2, U3 In
and Usty using usexbared similarity measure. This
method is known as Cascading.
Similarity you
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Uz and U,
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frist calculate similarity of Iz with all others.
Uses item 1 2 3 4 5 Nean
Wet 1 ! -0-33 -0-33 -0-67 3.25
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Is and Iz: 1-0.28 x -0/25 =11
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J(0.25)2+(0.75)2 x J(0.25)2+(0.25)2

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7776 In and Ig: -0.33x 0.67 + 0.25x0.25 : -0.35 -0.52 JO-332 +0.252 + x JO-672 + 0-25

In and Jy: -0-337-0-33 +-0.75x0.25 : -0.23 VO-332 + 0-752 x JO.332 +0.252

nearest heighbours: Iz and Is

3.33+ -0.33x -0.89 + -0.33 + -6.54 : 3.66 2 4

1-10.88)+1-10.541

d) Mode is a measure of central tendencythat represents
the most repeated I nalve in a dataset whereas
using mean or mode for pudiction ear lead
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to new different results.
to very different results.
Using mode can be useful where used ging enterno
rating, since mode is not affected by anomalies
of values on the face bedges of the spetting
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taxes into account all the natures and also captures
subtle différences in user preferences. It is more accurate
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