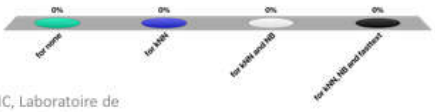
The dimensionality of the feature space depends on the vocabulary size …

A. for none
B. for kNN
C. for kNN and NB
D. for kNN, NB and fasttext



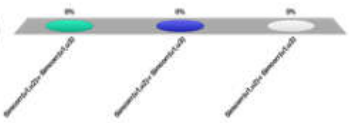
Given 3 users with ratings…

U1: 1 3
U2: 2 4
U3: 1 4

A. $Sim_{corr}(u1,u2) > Sim_{corr}(u1,u3)$

B. $Sim_{corr}(u1,u2) = Sim_{corr}(u1,u3)$

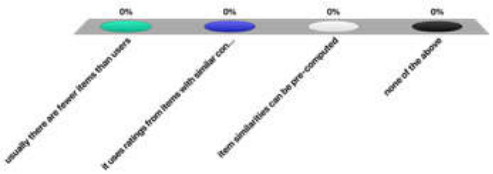
C. $Sim_{corr}(u1,u2) < Sim_{corr}(u1,u3)$



- we take the relative behaviour w.r.t. the mean

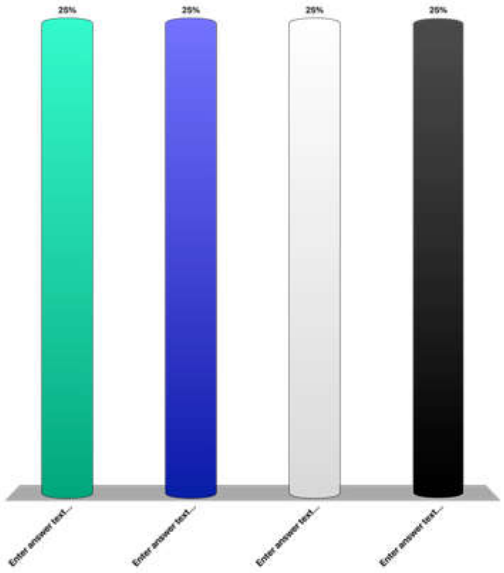
Item-based collaborative filtering addresses better the cold-start problem because …

A. usually there are fewer items than users
B. it uses ratings from items with similar content
C. item similarities can be pre-computed
D. none of the above



For a user that has not done any ratings, which method can make a prediction?

A. User-based collaborative RS
B. Item-based collaborative RS
C. Content-based RS
D. None of the above



- even without any ratings, we can compare user profiles based on some external information available for them

For an item that has not received any ratings, which method can make a prediction?

A. User-based collaborative RS
B. Item-based collaborative RS
C. Content-based RS
D. None of the above