

1000

D Recaya Data prep for Content-baked

D Regression using Content Based Data

D Collaborative Filtering

D MF from Scratch

D Using Library

D Metric for Evaluating Recommendations

mid

Animation Jandary Comedy ---
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I

## optimization equation

Loga = Vi, I; [Aij - Vi Ii]
Optimise
Soto Aij + Null

SGD to gind value of

Initialize matrix Stepto U and Matriy I randomly Qm= K stepla Take desirative of loop and update U and I

(A:,- U; I;)

Learning-rate &

Metric Por Evaluating Recommendations

User: Nina

Propose Propos

Overlap 2)
Total tre interaction (De Coly)

9 3 9 75%

Precirion @ K

## What is K-precision?

- · K-Precision is a metric used to evaluate the quality of recommendations provided by recommendation systems.
- It assesses how many of the top-K recommended items are relevant to the user's preferences.
- · A higher K-Precision value indicates better recommendation quality.

 $P@K = \frac{\sum Relevant \ items \ in \ top \ K \ recommendations}{\sum Items \ in \ top \ K \ recommendations}$ 

K=10
relevent ltems in 10 TRC\_

total "Item in K