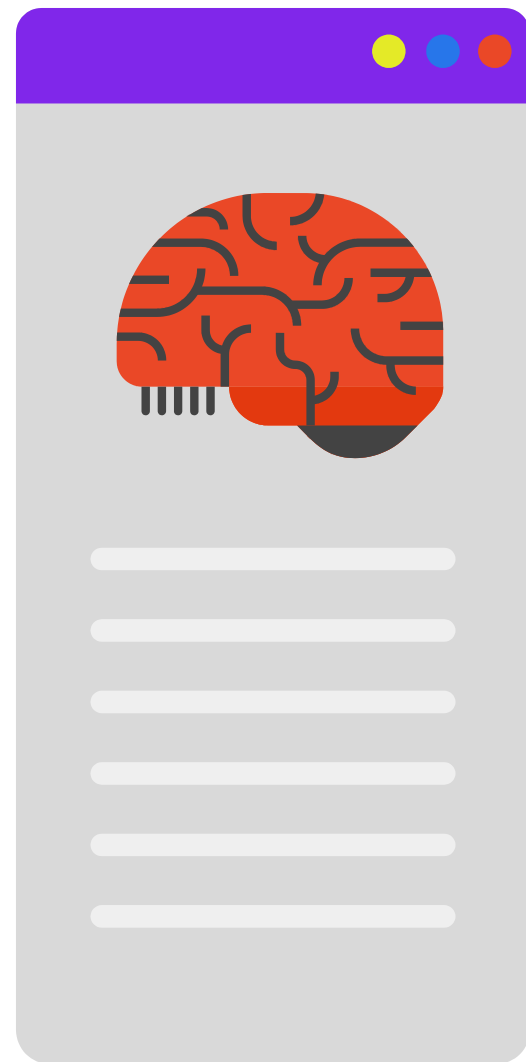


Recommender systems online shopping

APRENTATGE
COMPUTACIONAL

Laura Gispert
Joel Clemente
Guillem Balmanyà

PLANTEJAMENT INICIAL



Objectius

01

Determinar quin tipus de sistema recomanador és el més adequat per a cada situació concreta.

02

Identificar les diferències principals entre els diferents tipus de sistemes recomanadors disponibles.

ESTRUCTURA INICIAL

Total reviews: 7824482

Total columns: 4

Rating mínim: 1.0

Rating màxim: 5.0

Avans de filtrar:

Ratings únics: 5

Usuaris únics: 4201696

Productes únics: 476002

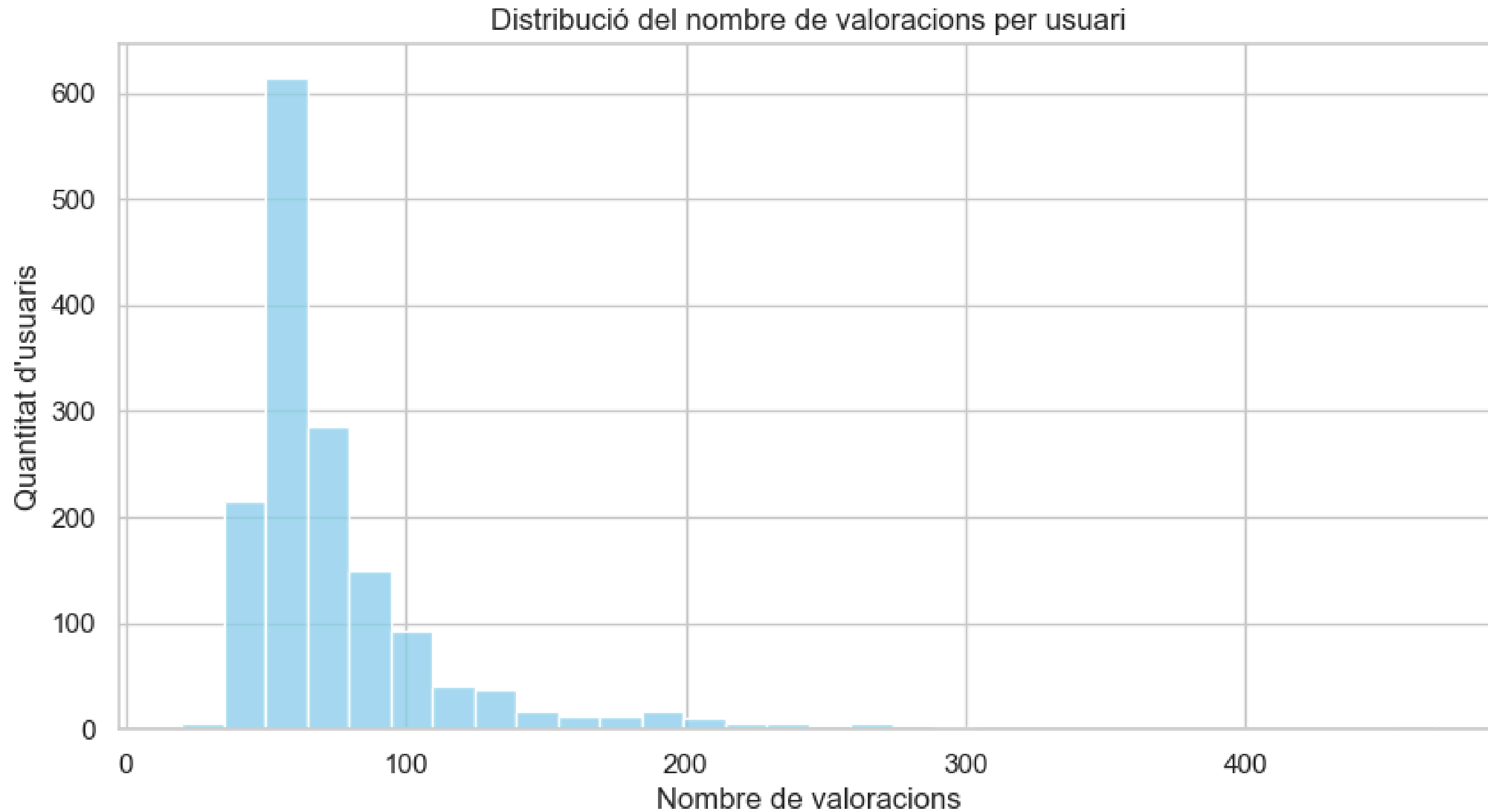
Després de filtrar:

Ratings únics: 5

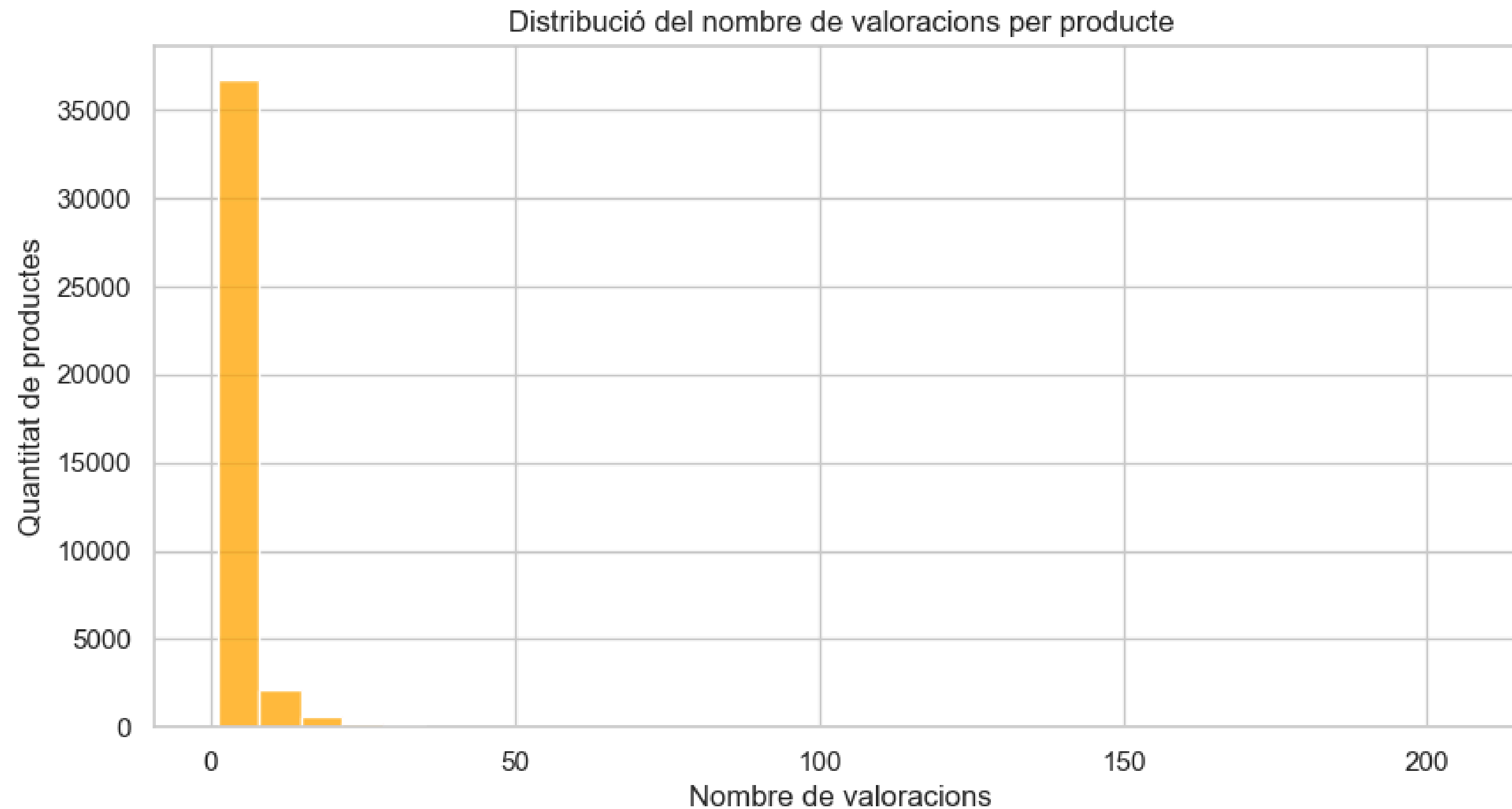
Usuaris únics: 1540

Productes únics: 39939

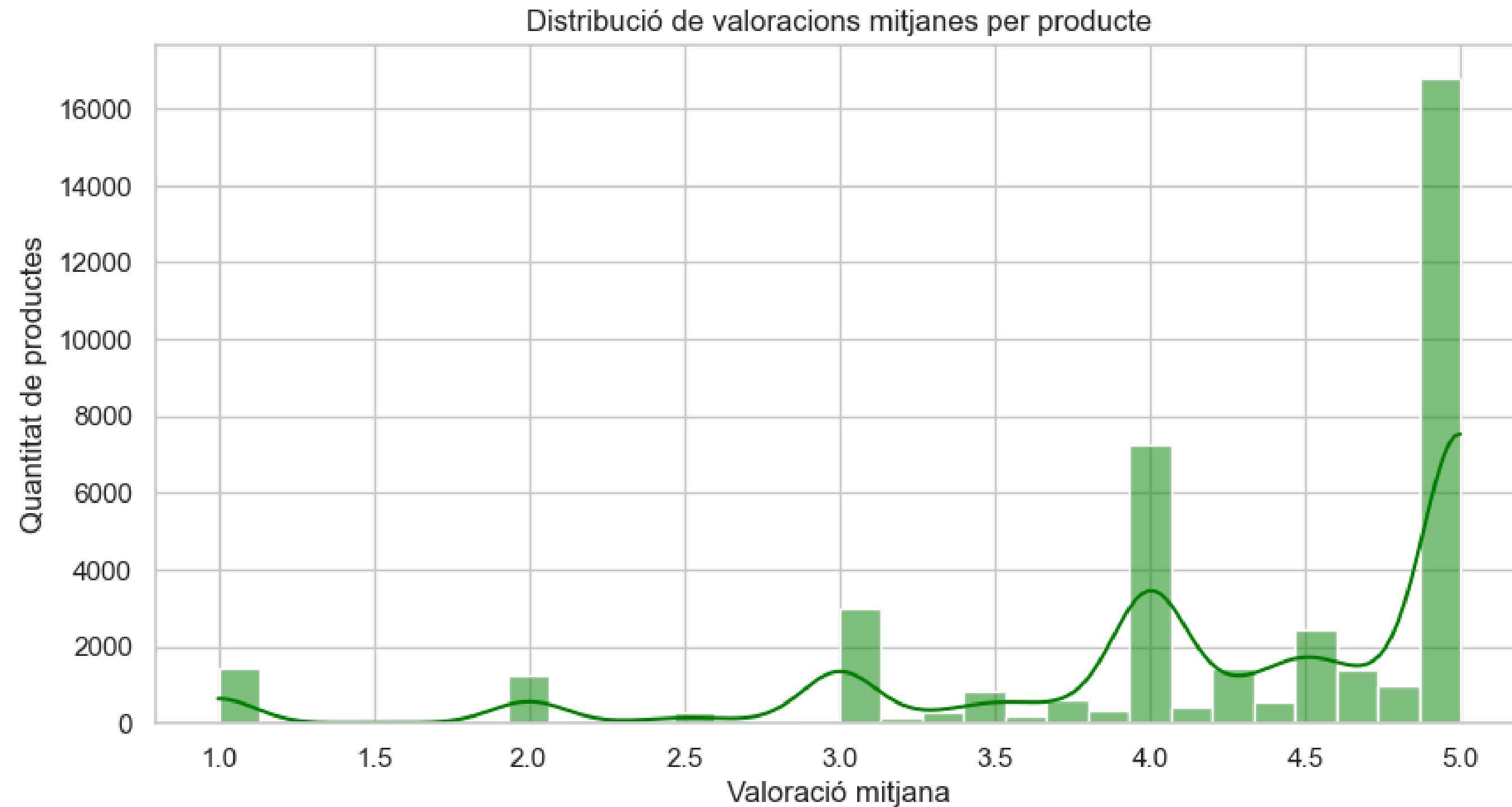
ANÀLISI DEL DATASET



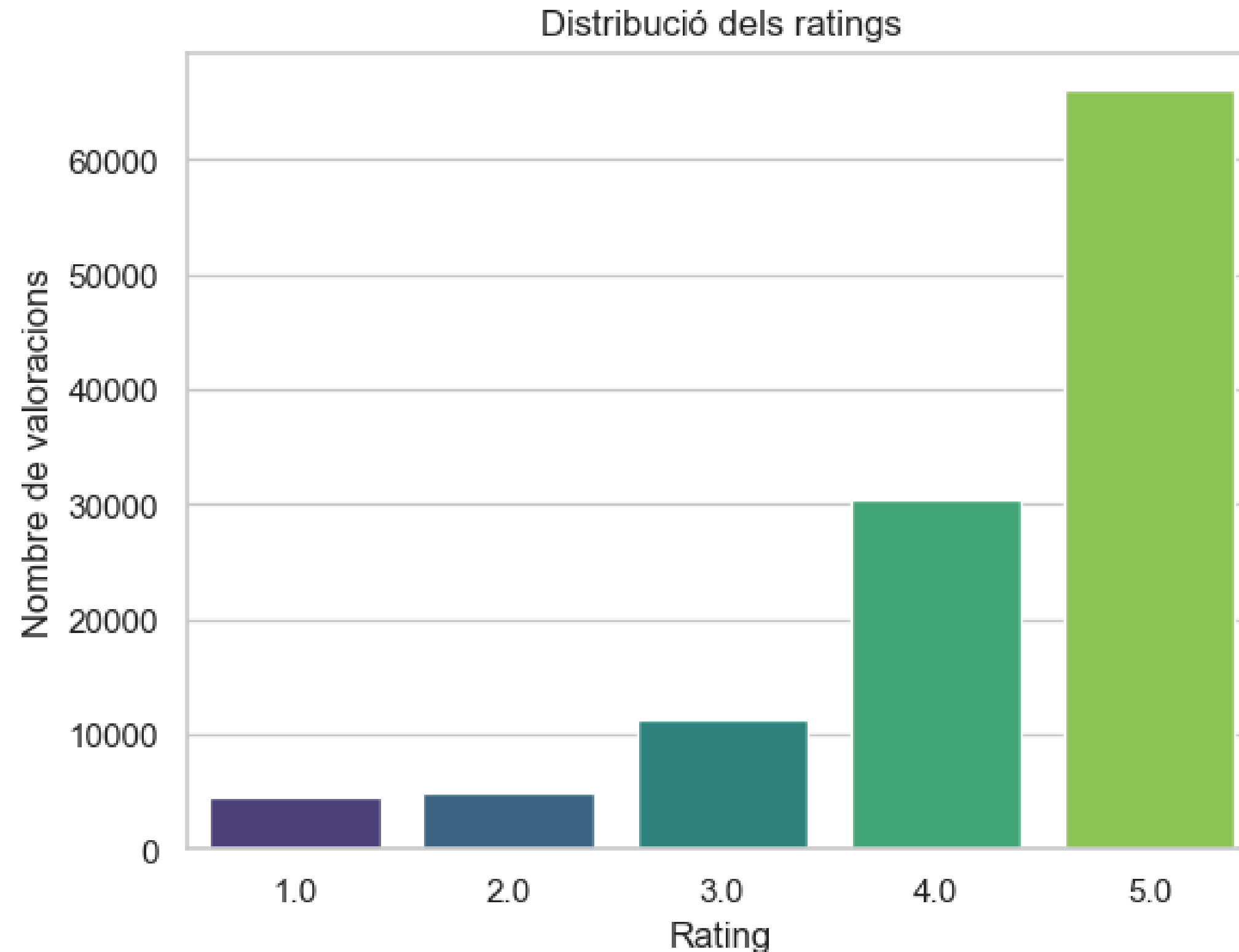
ANÀLISI DEL DATASET



ANÀlisi DEL DATASET



ANÀLISI DEL DATASET



MODELS ENTRENANTS

1

User-to-User

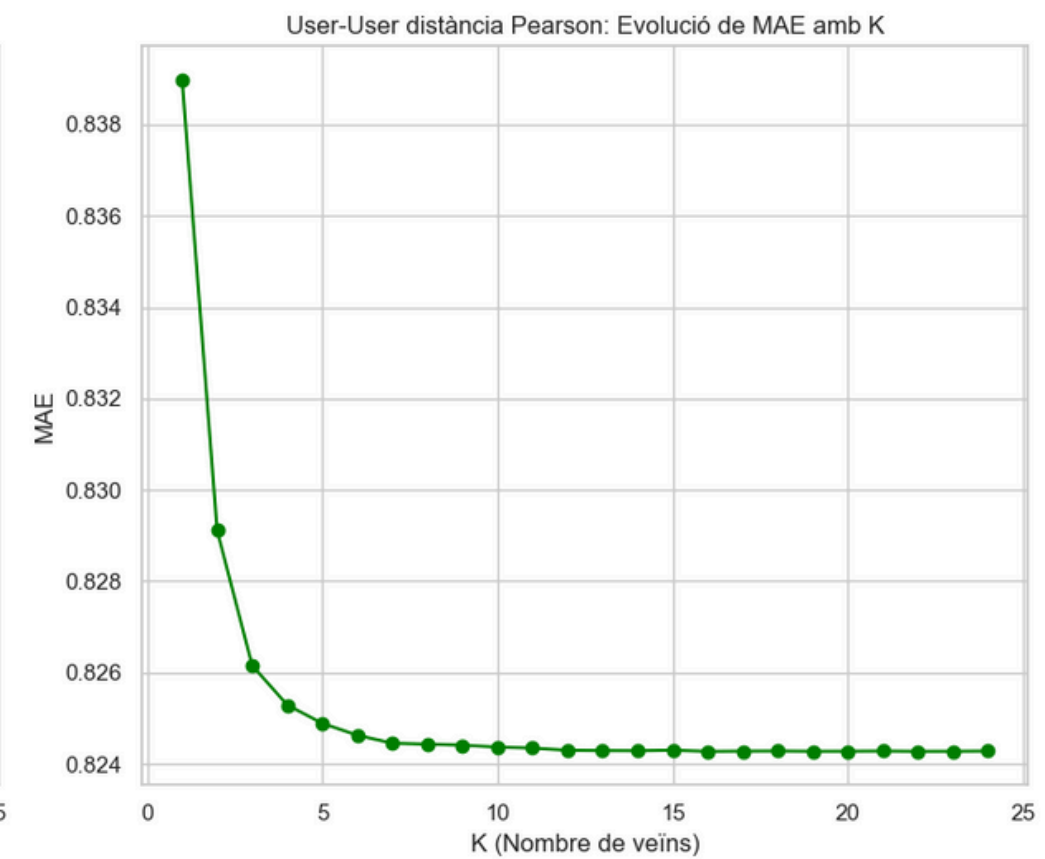
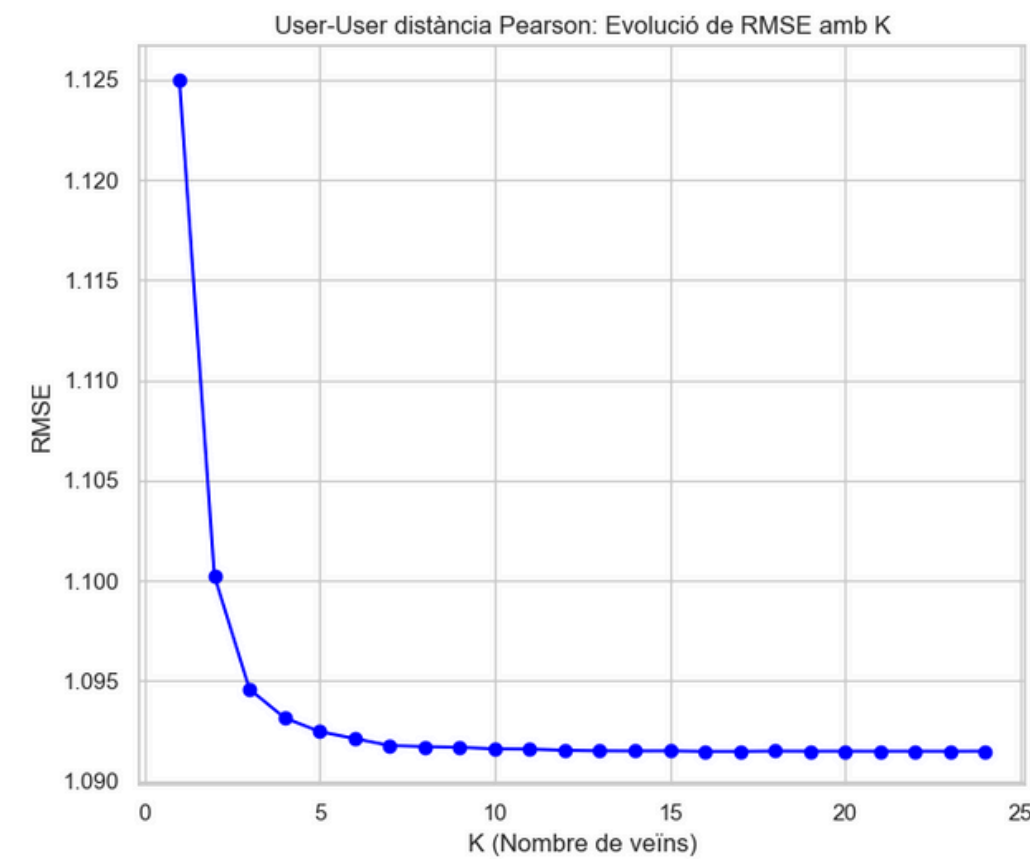
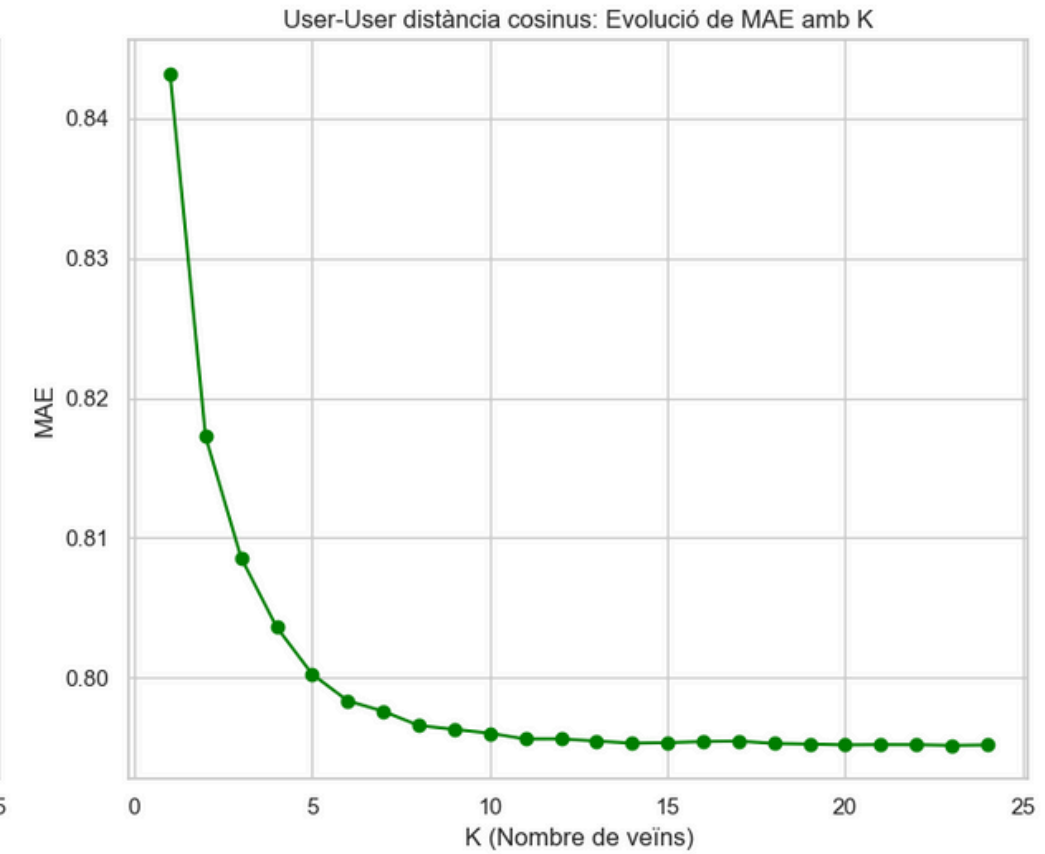
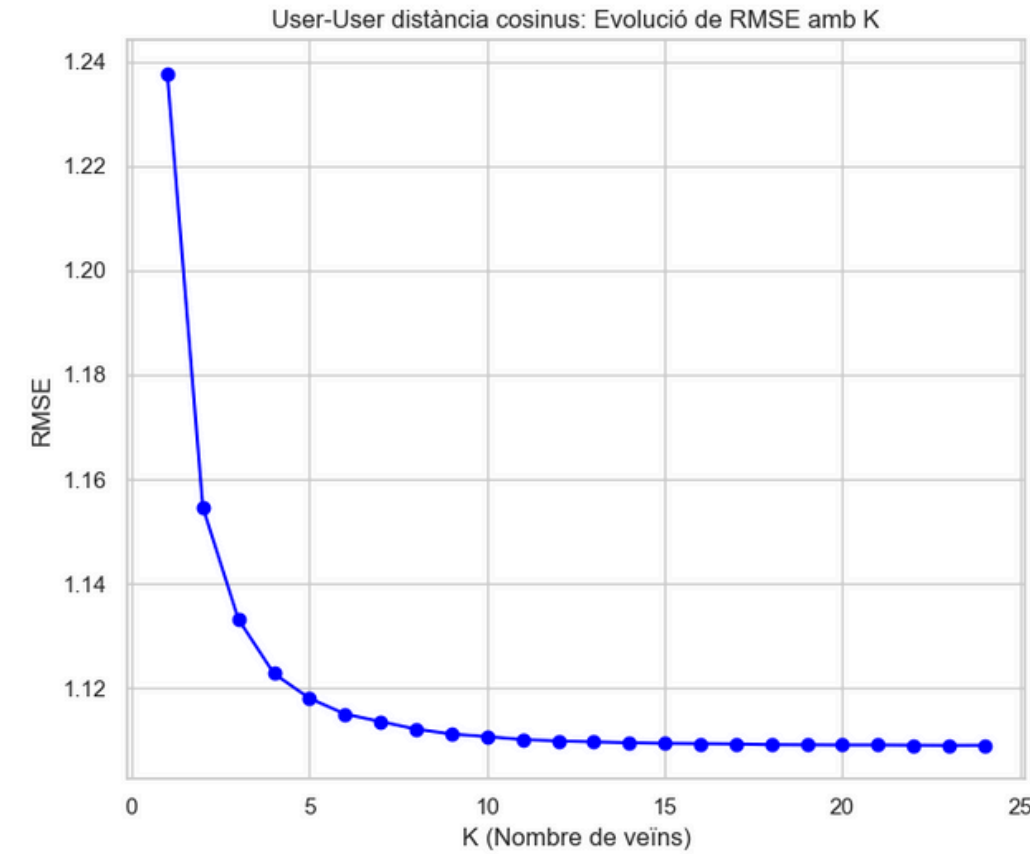
2

Item-to-Item

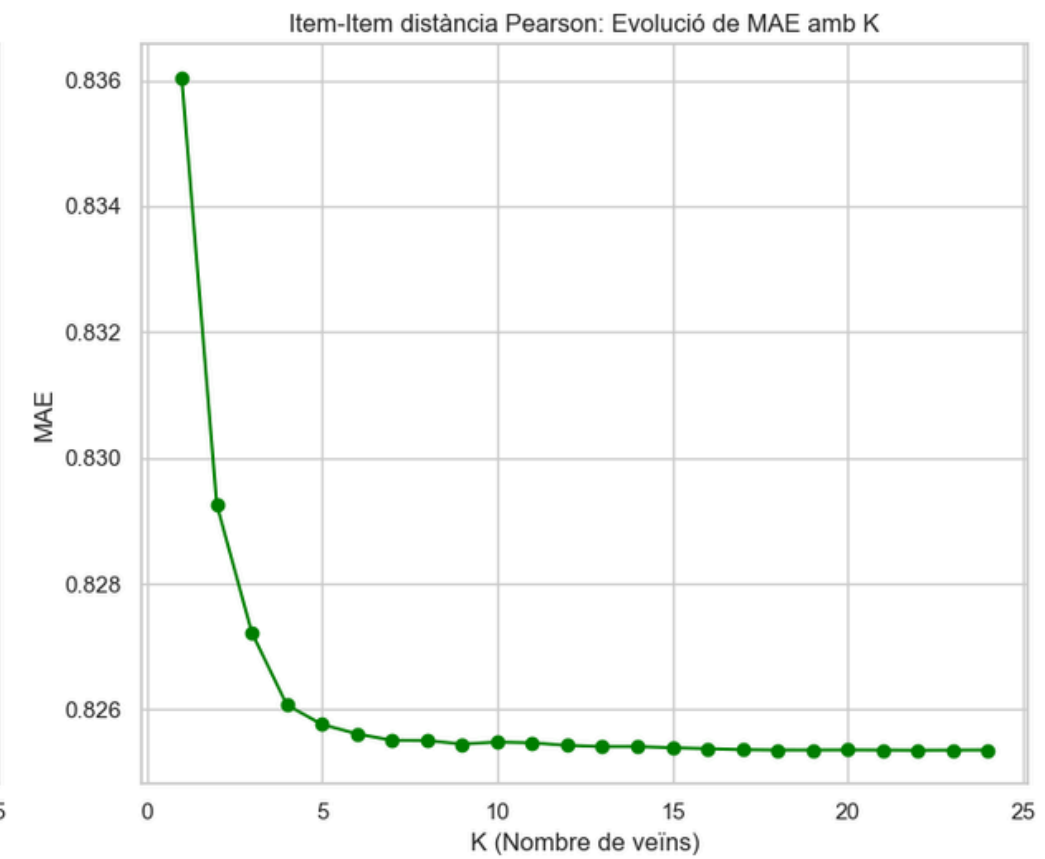
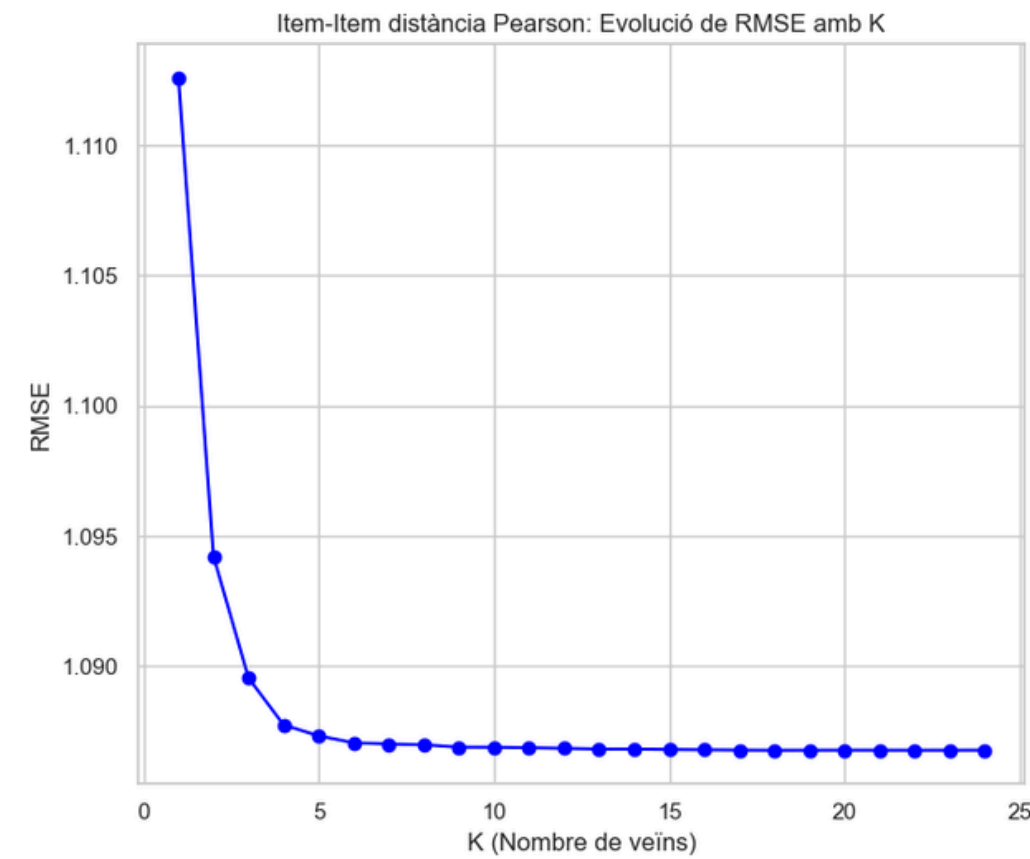
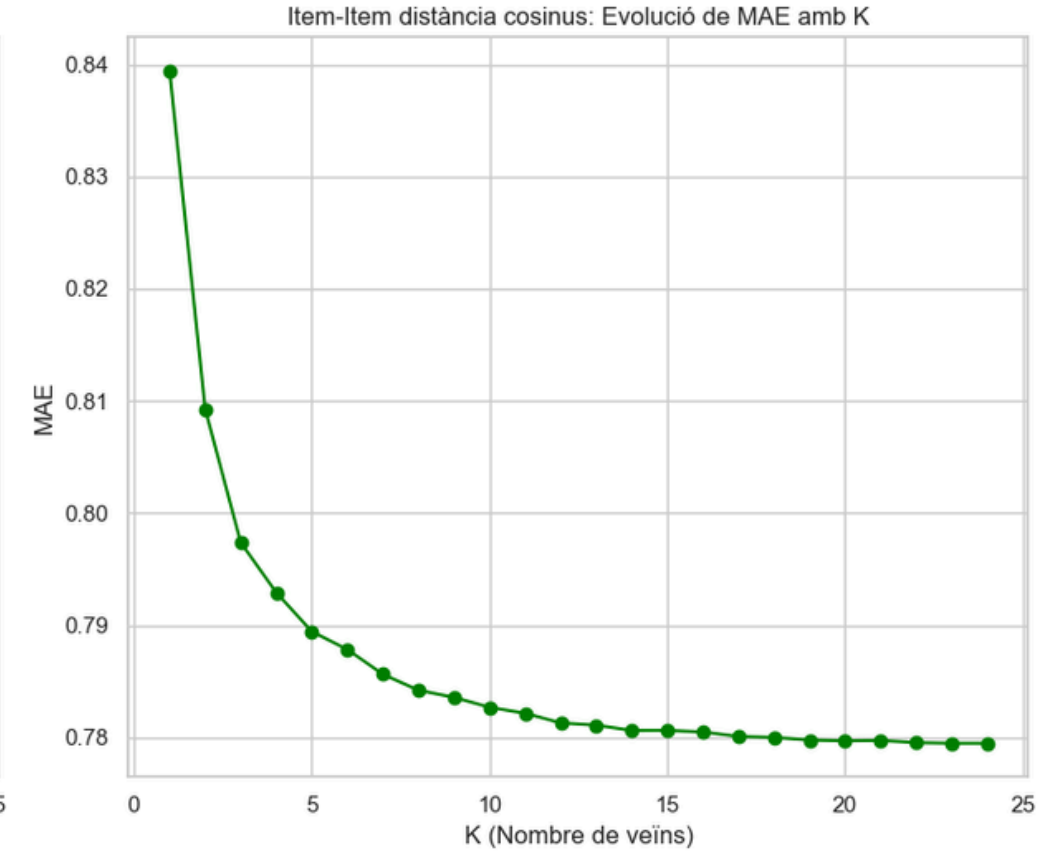
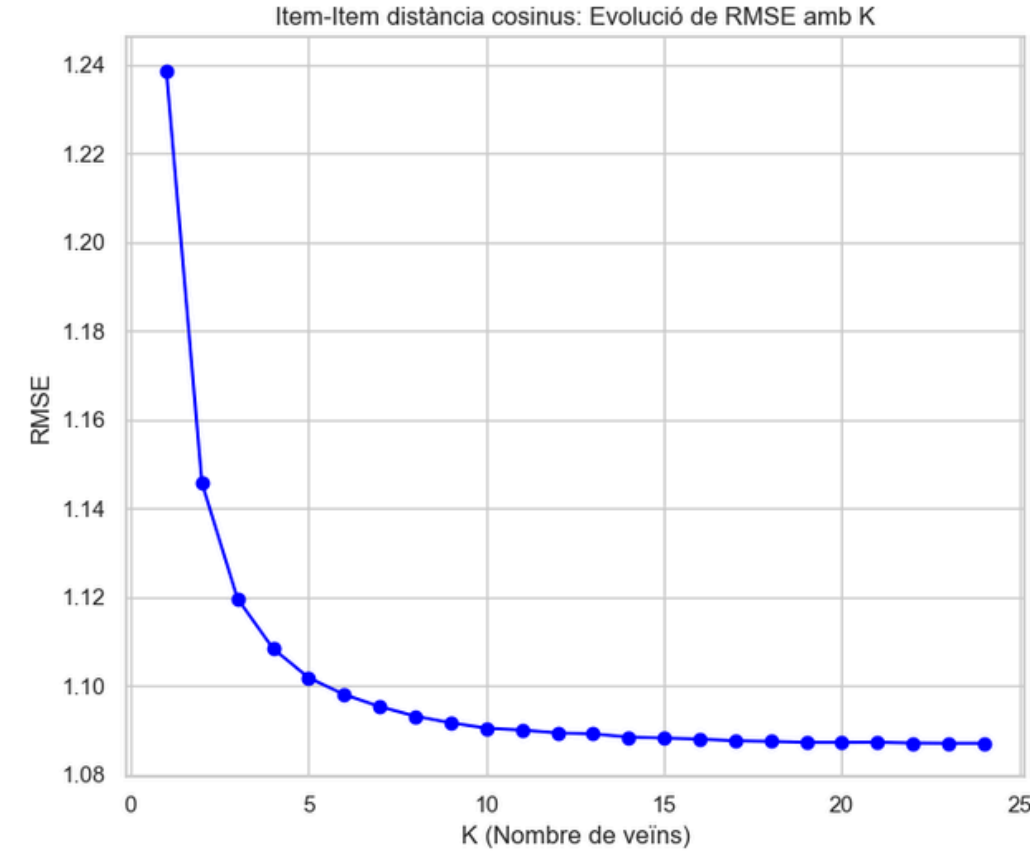
3

SVD

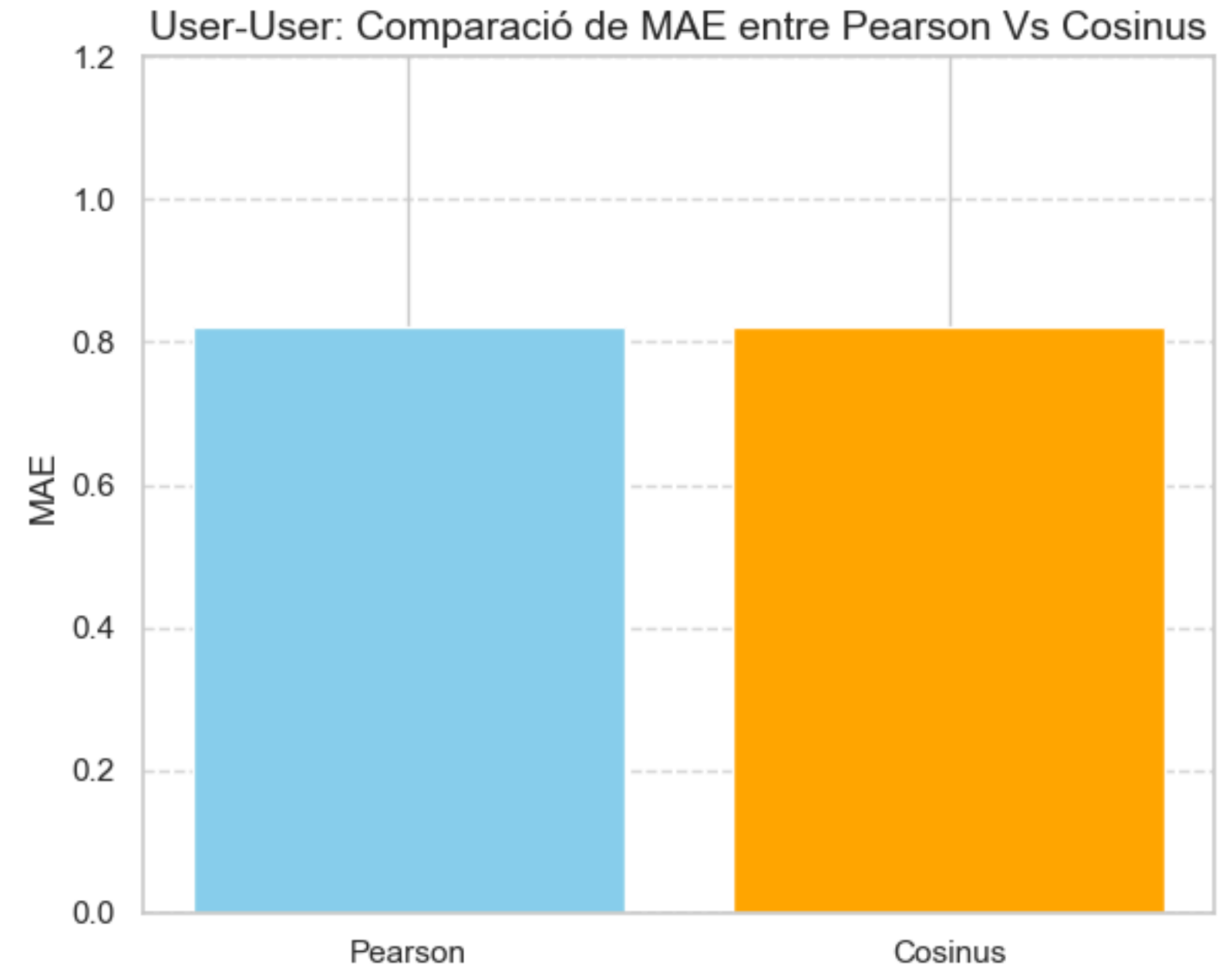
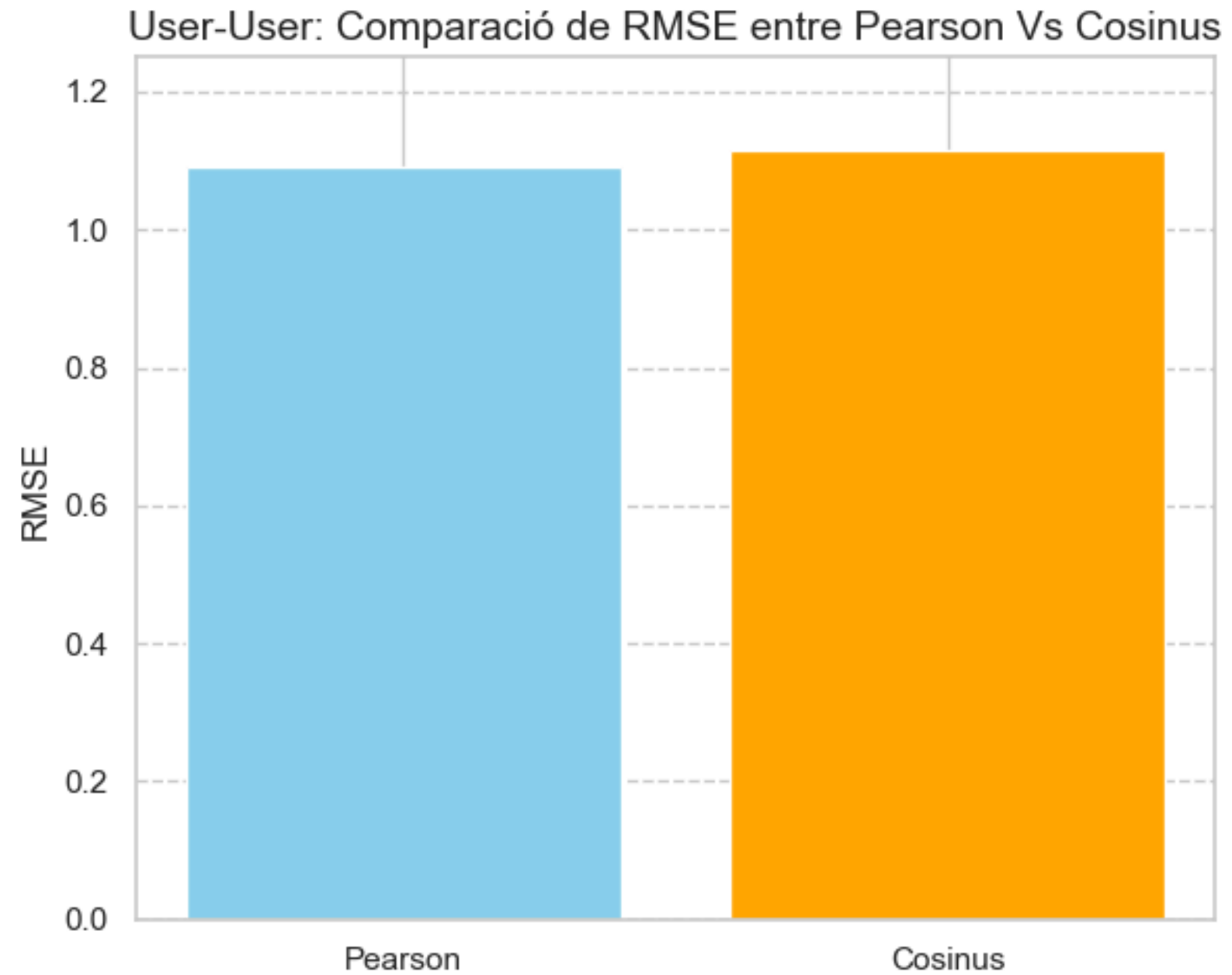
USER-USER: MILLOR K



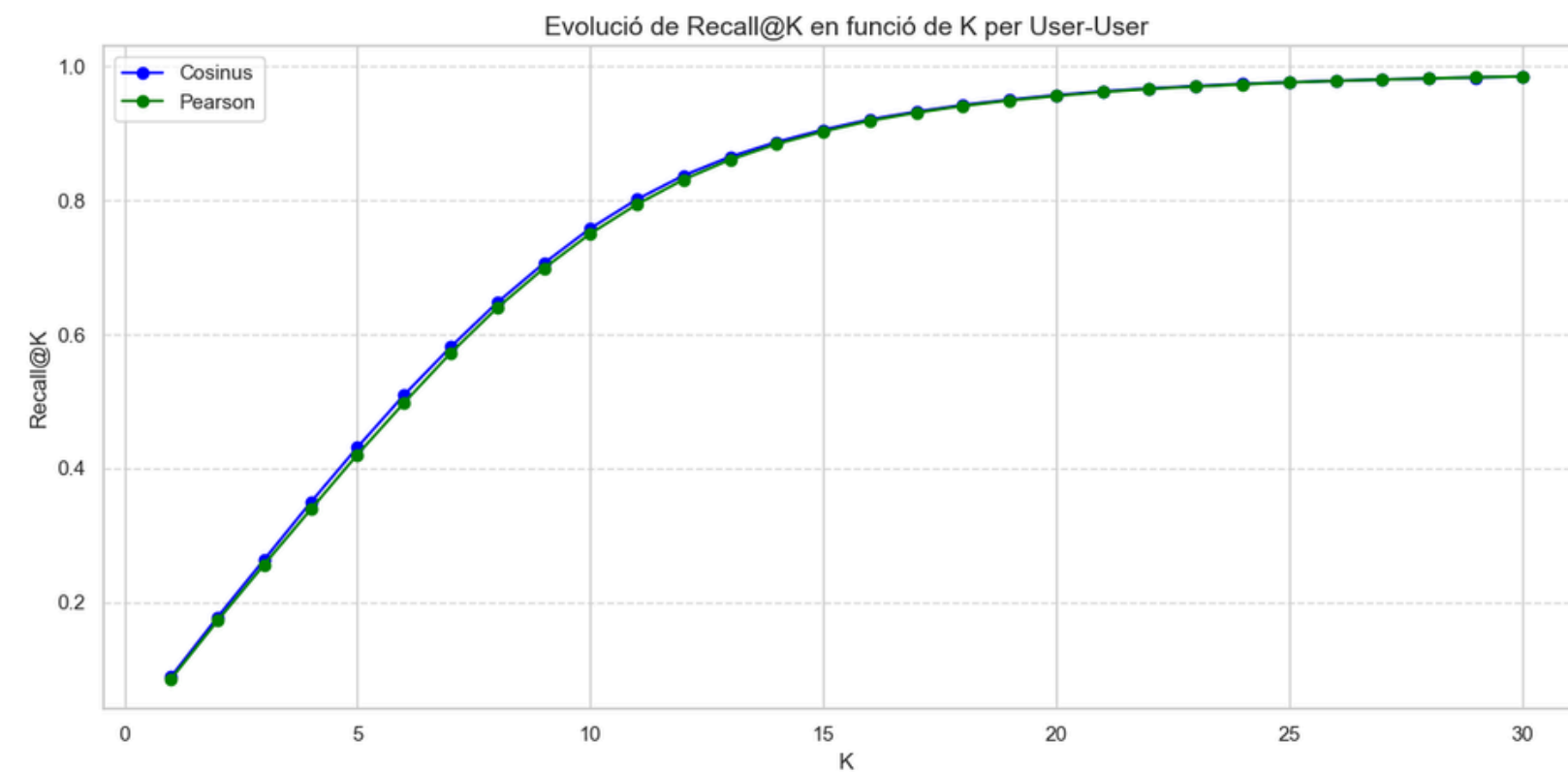
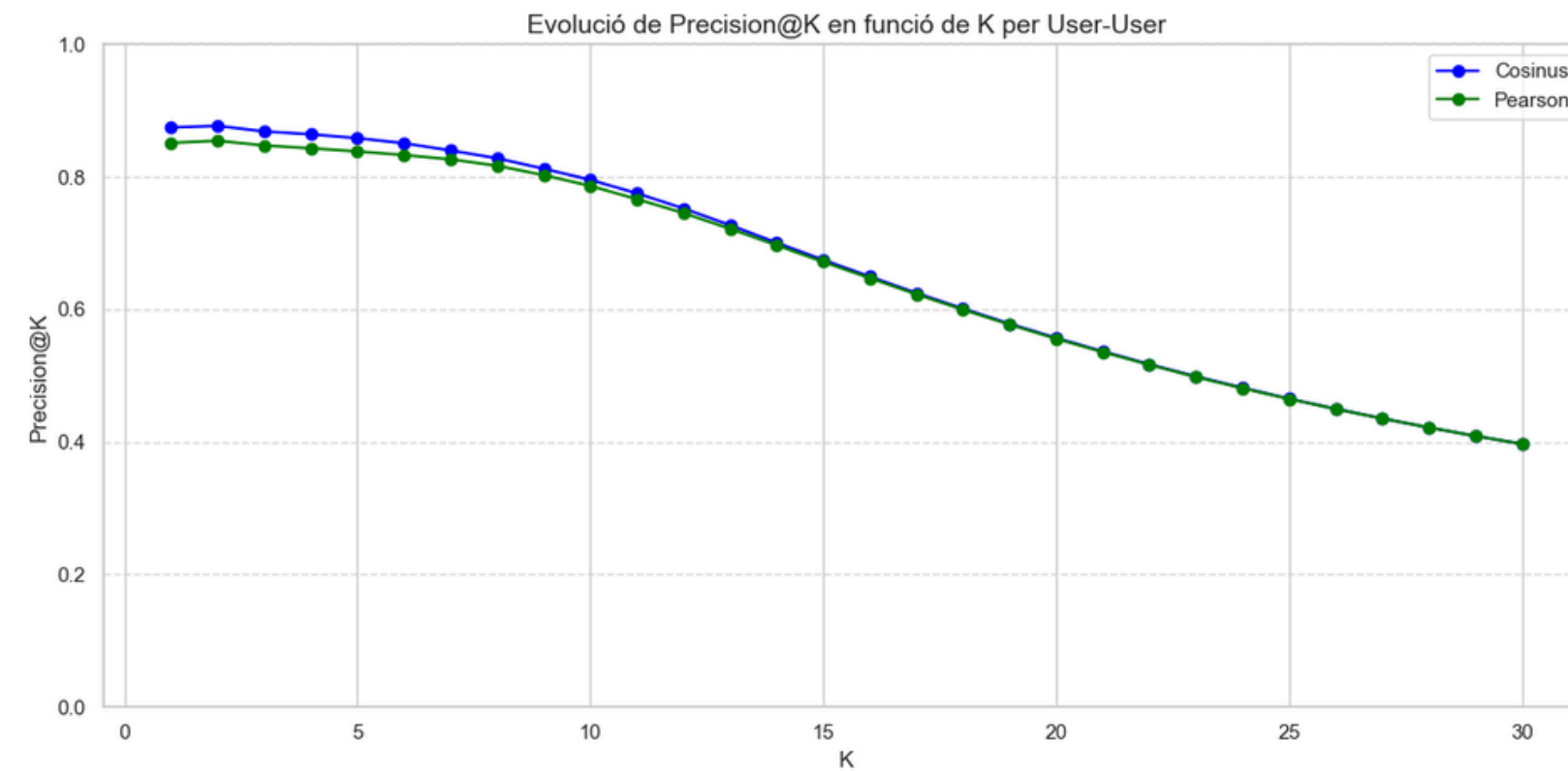
ITEM-ITEM: MILLOR K



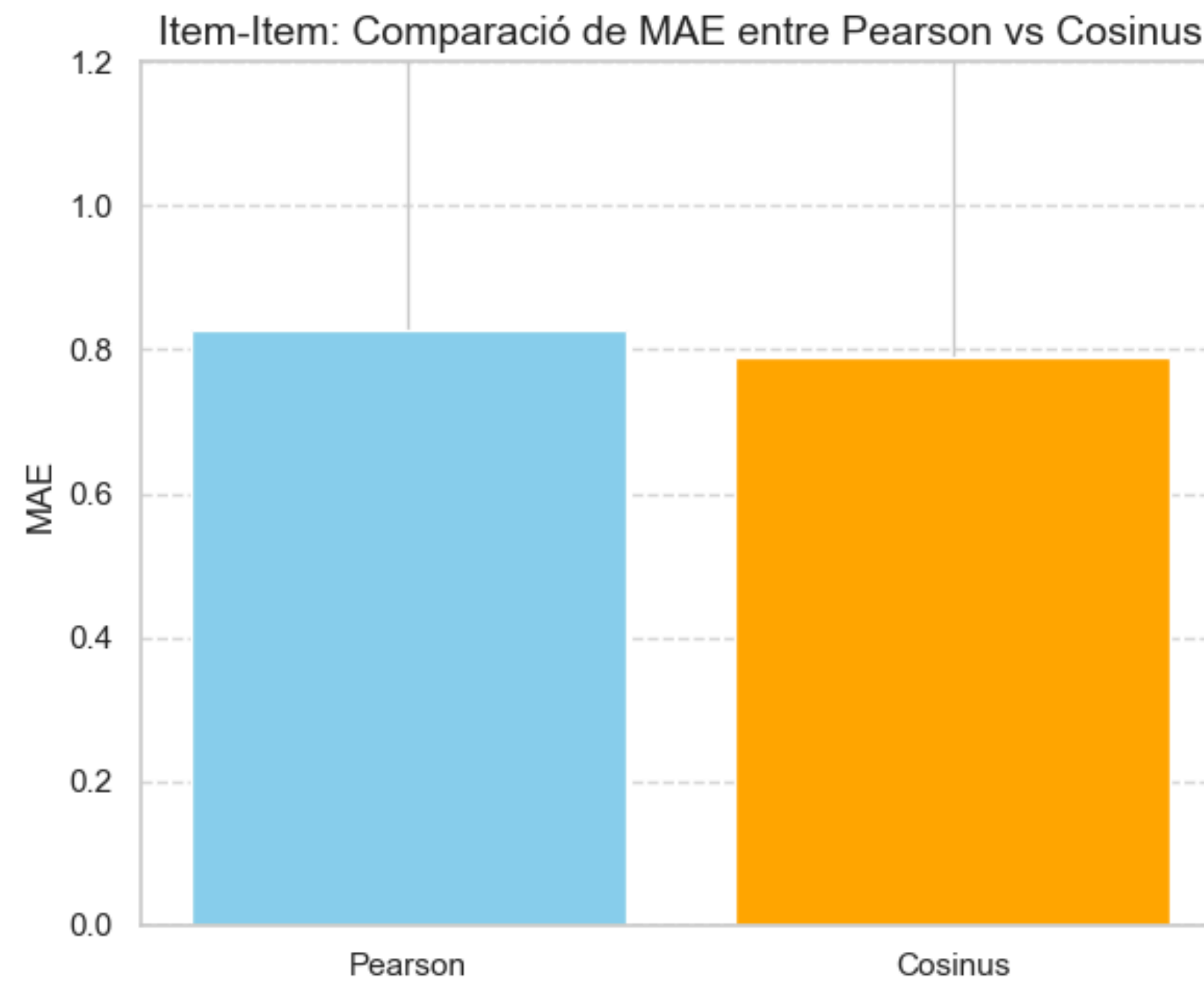
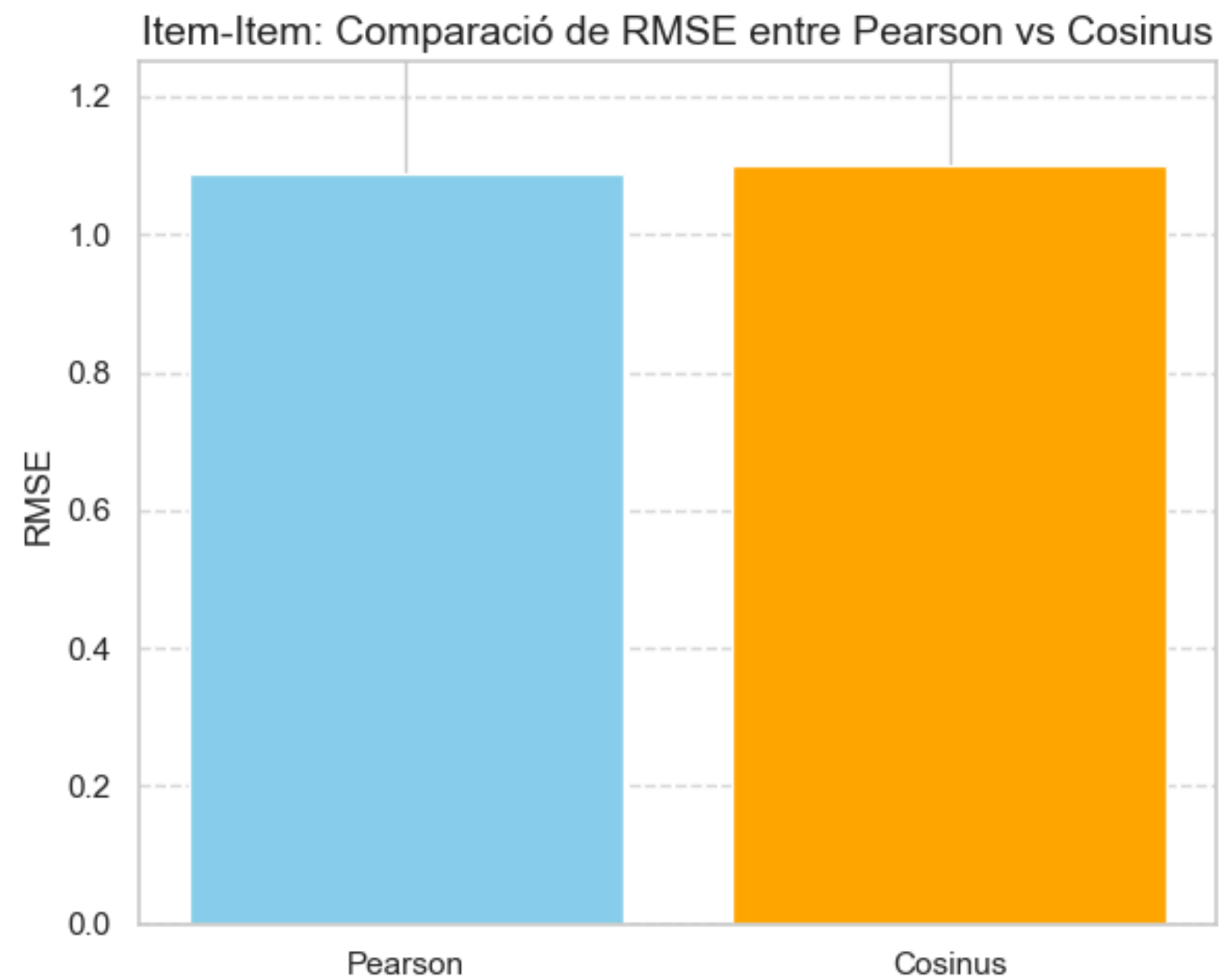
USER-USER: RMSE I MAE



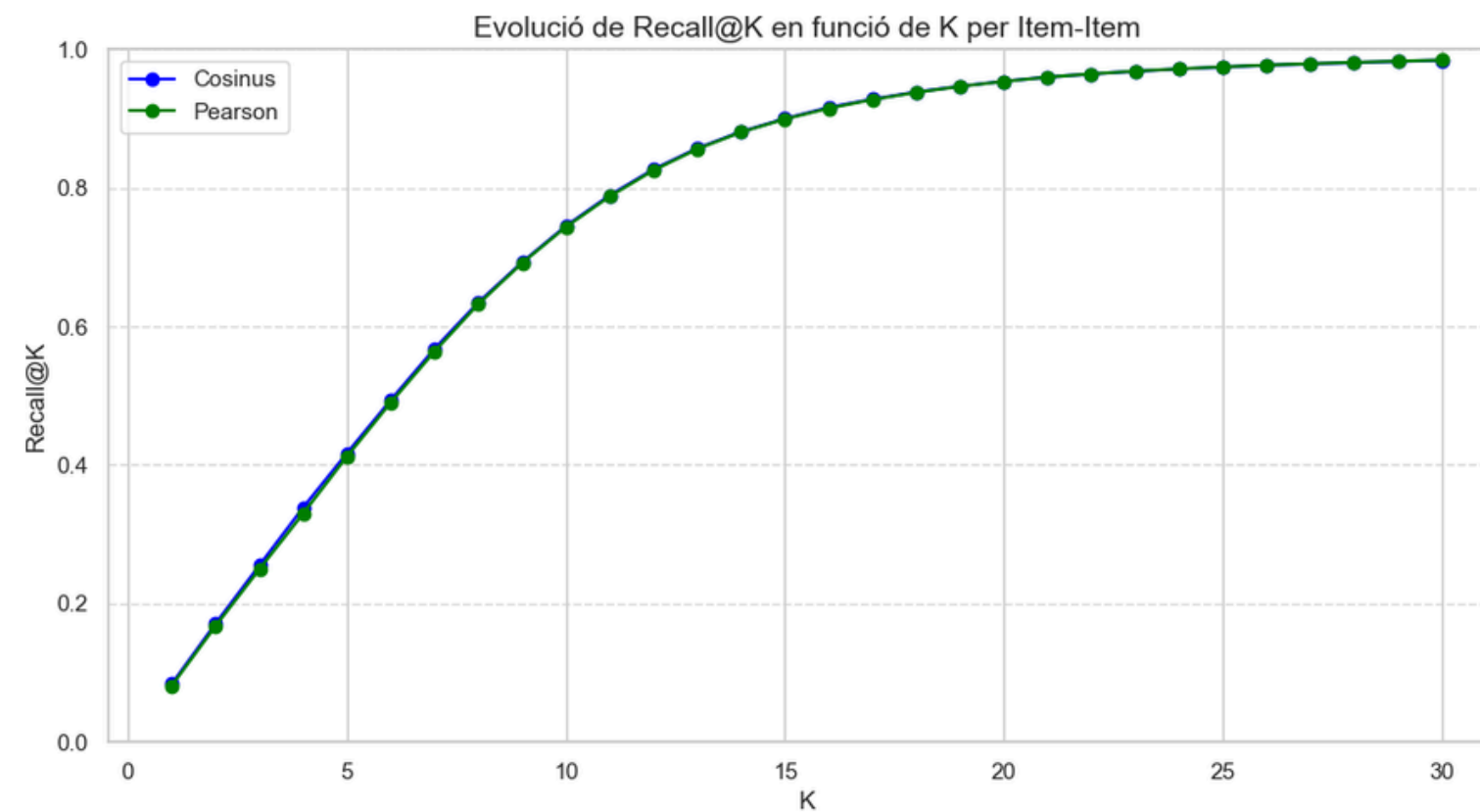
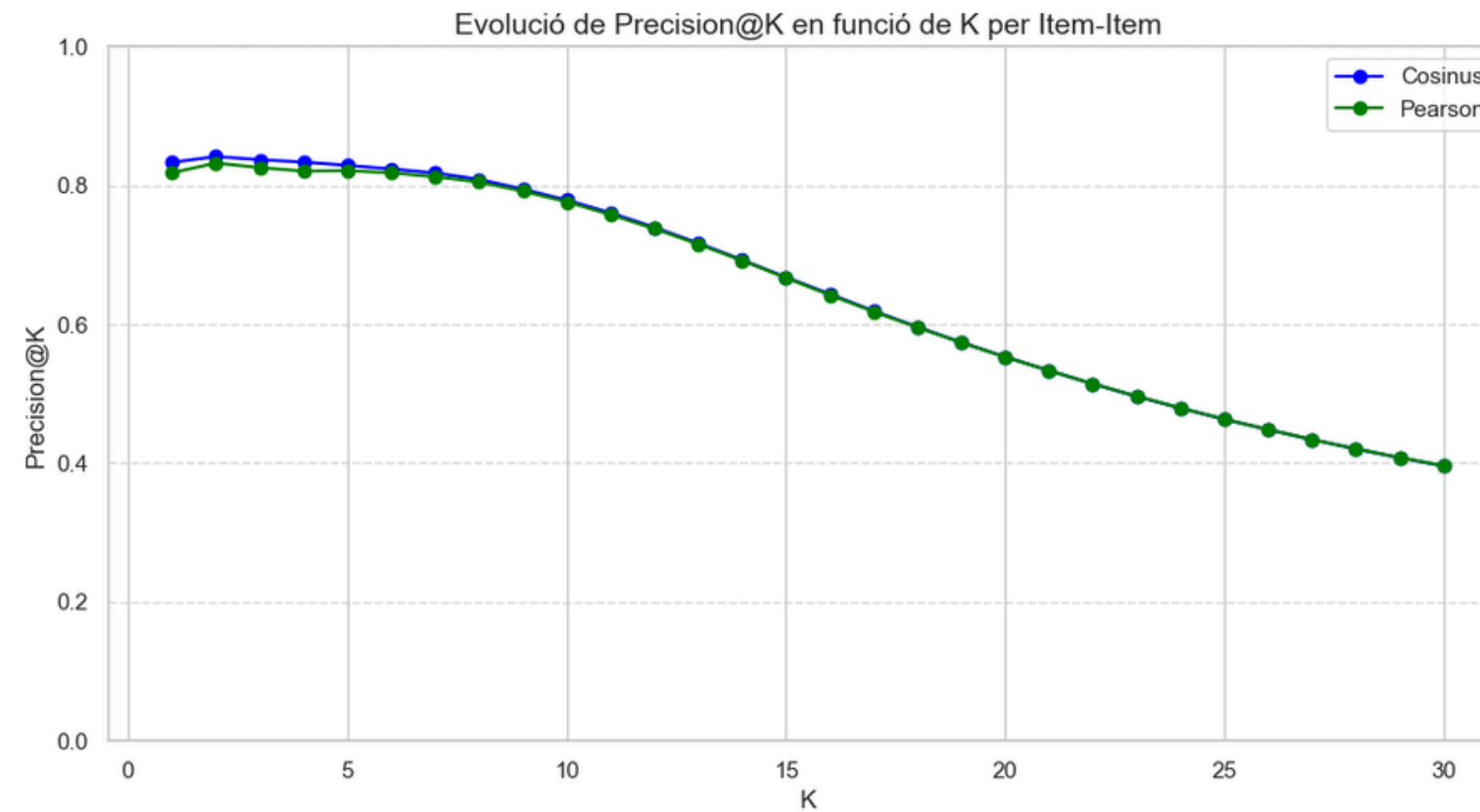
USER-USER: PRECISIÓ I RECALL



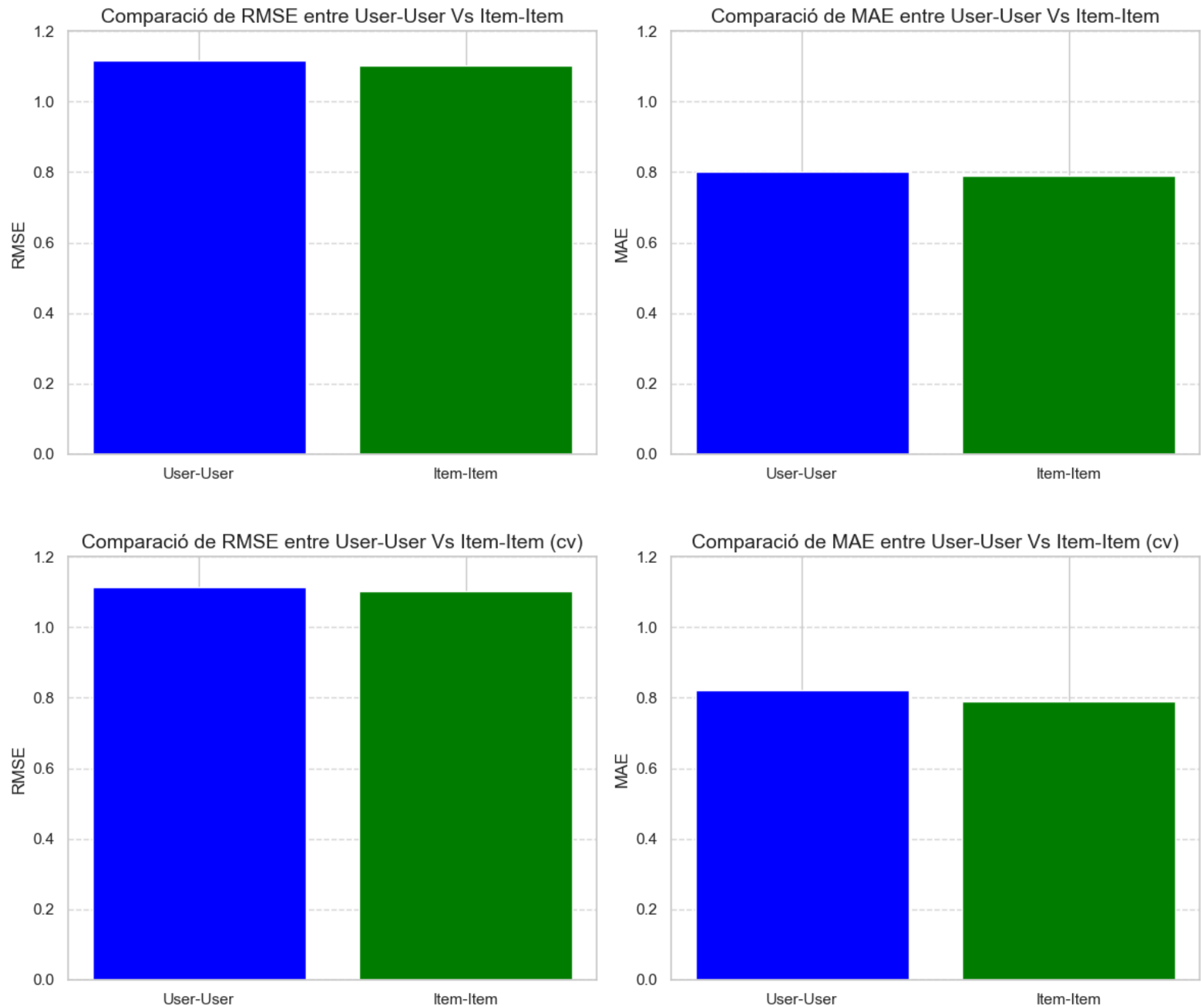
ITEM-ITEM: RMSE I MAE



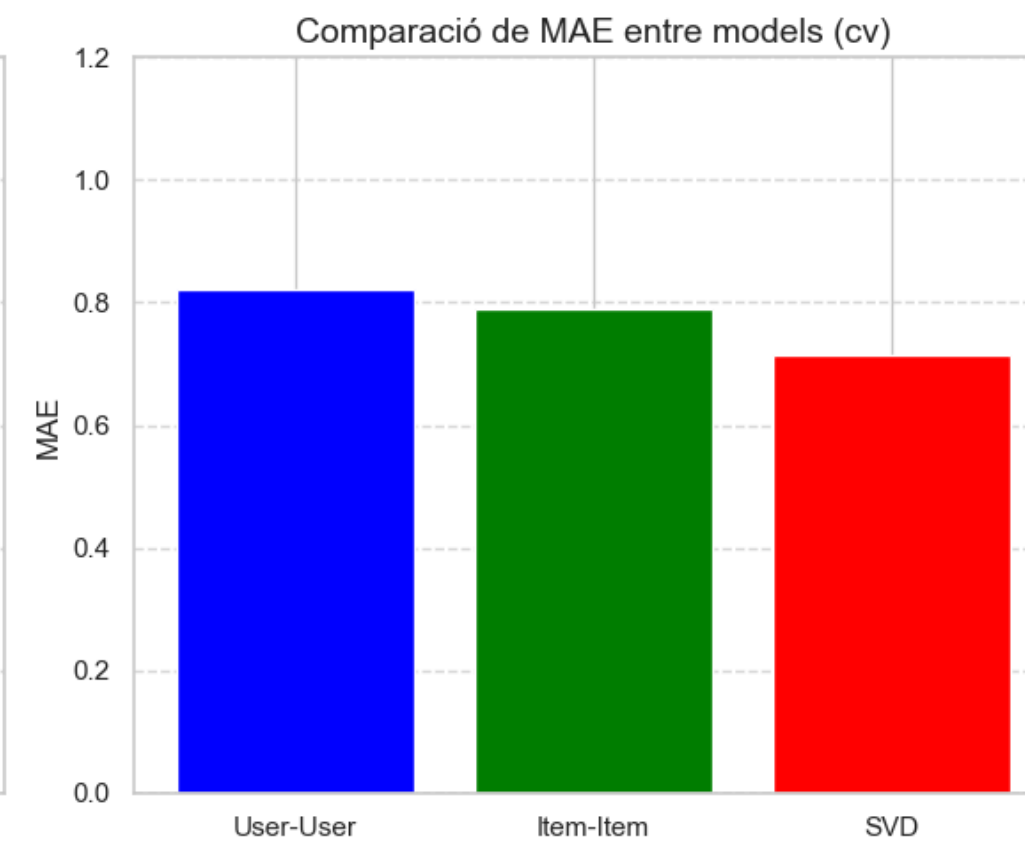
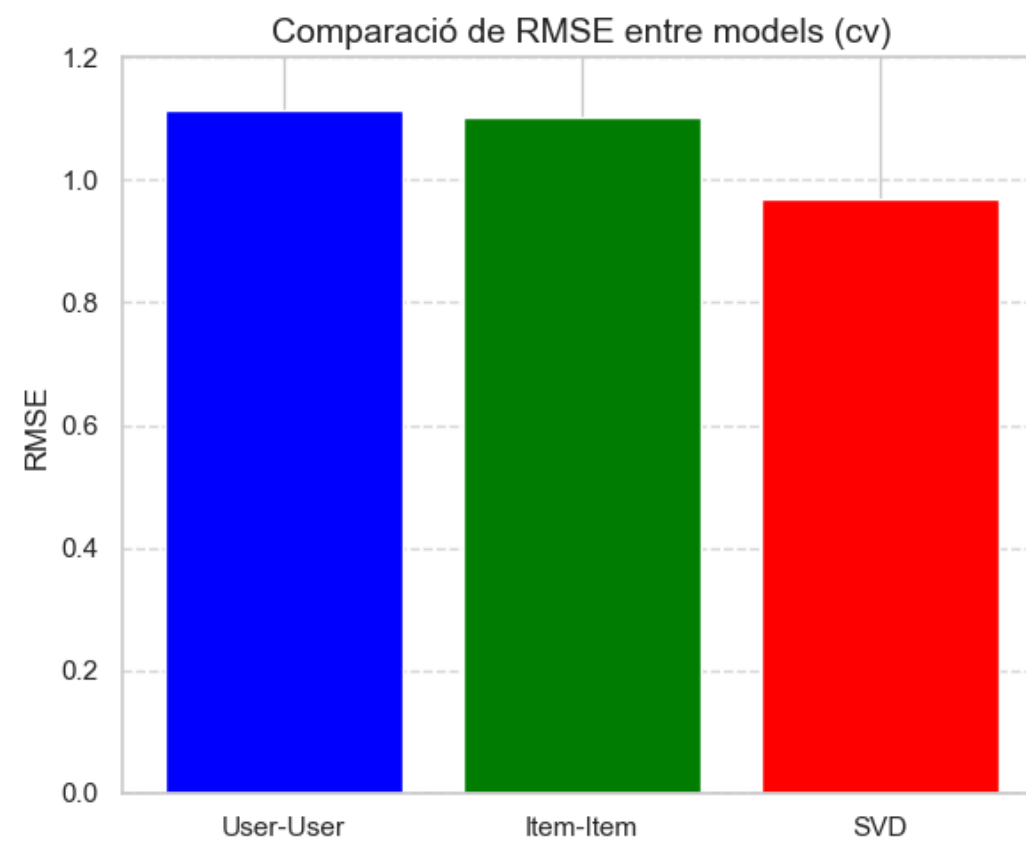
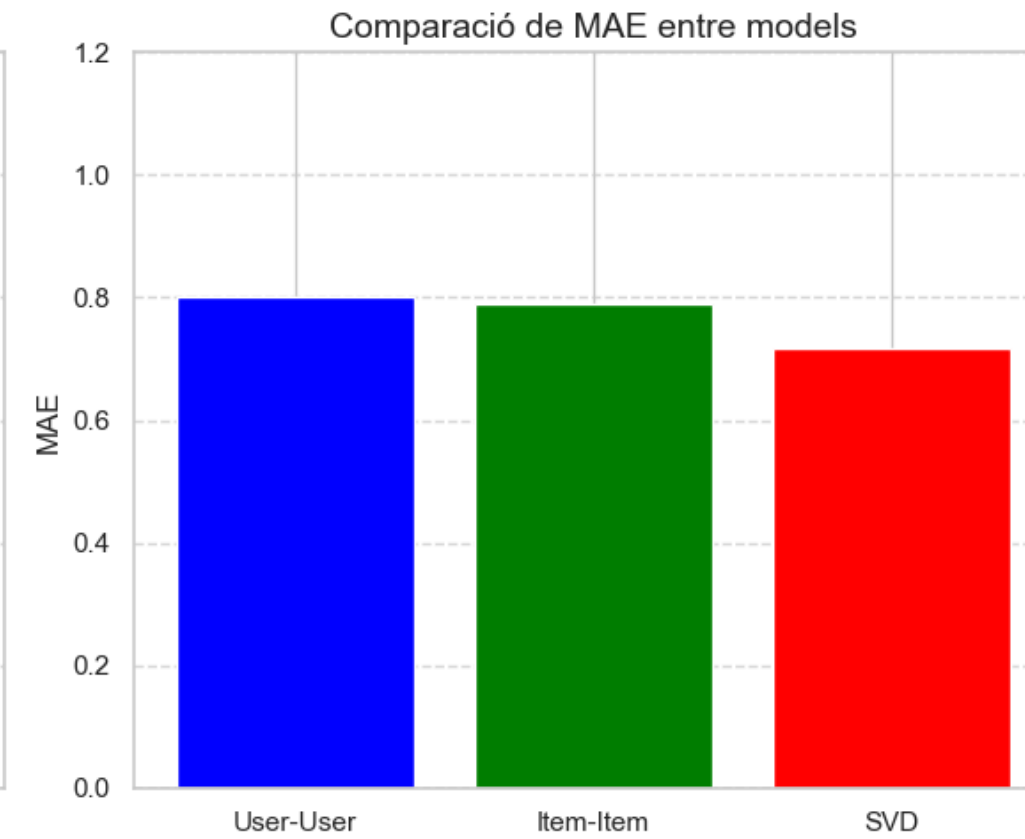
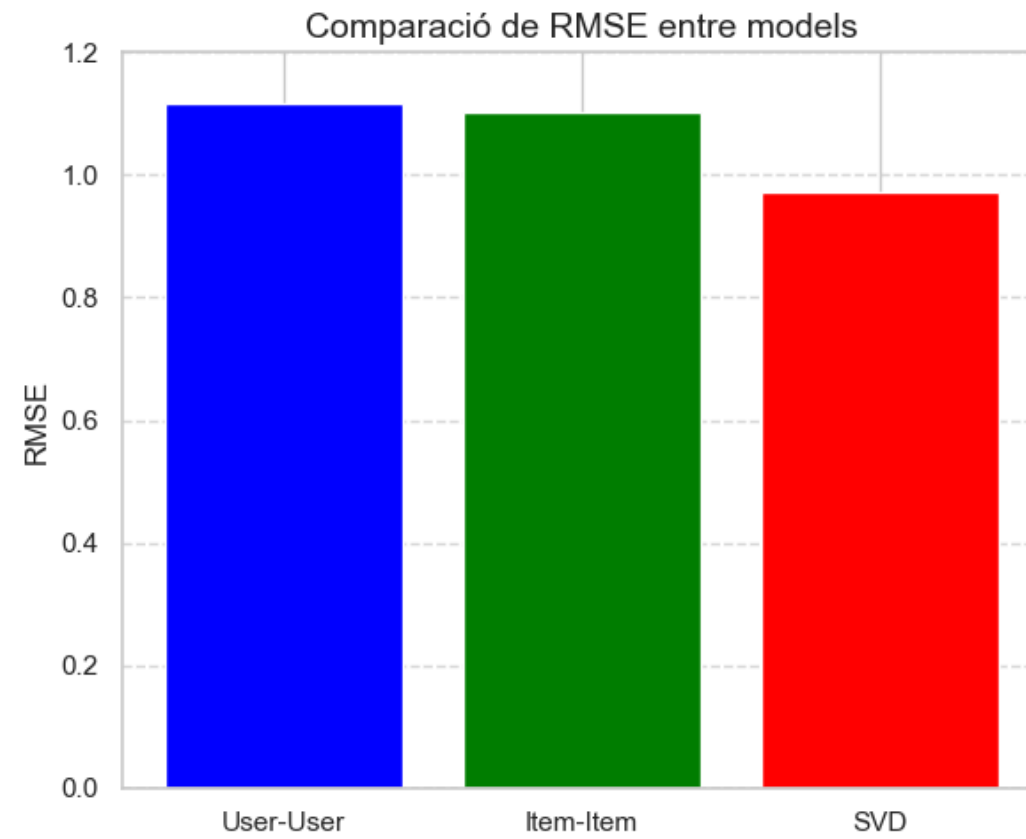
ITEM-ITEM: PRECISIÓ I RECALL



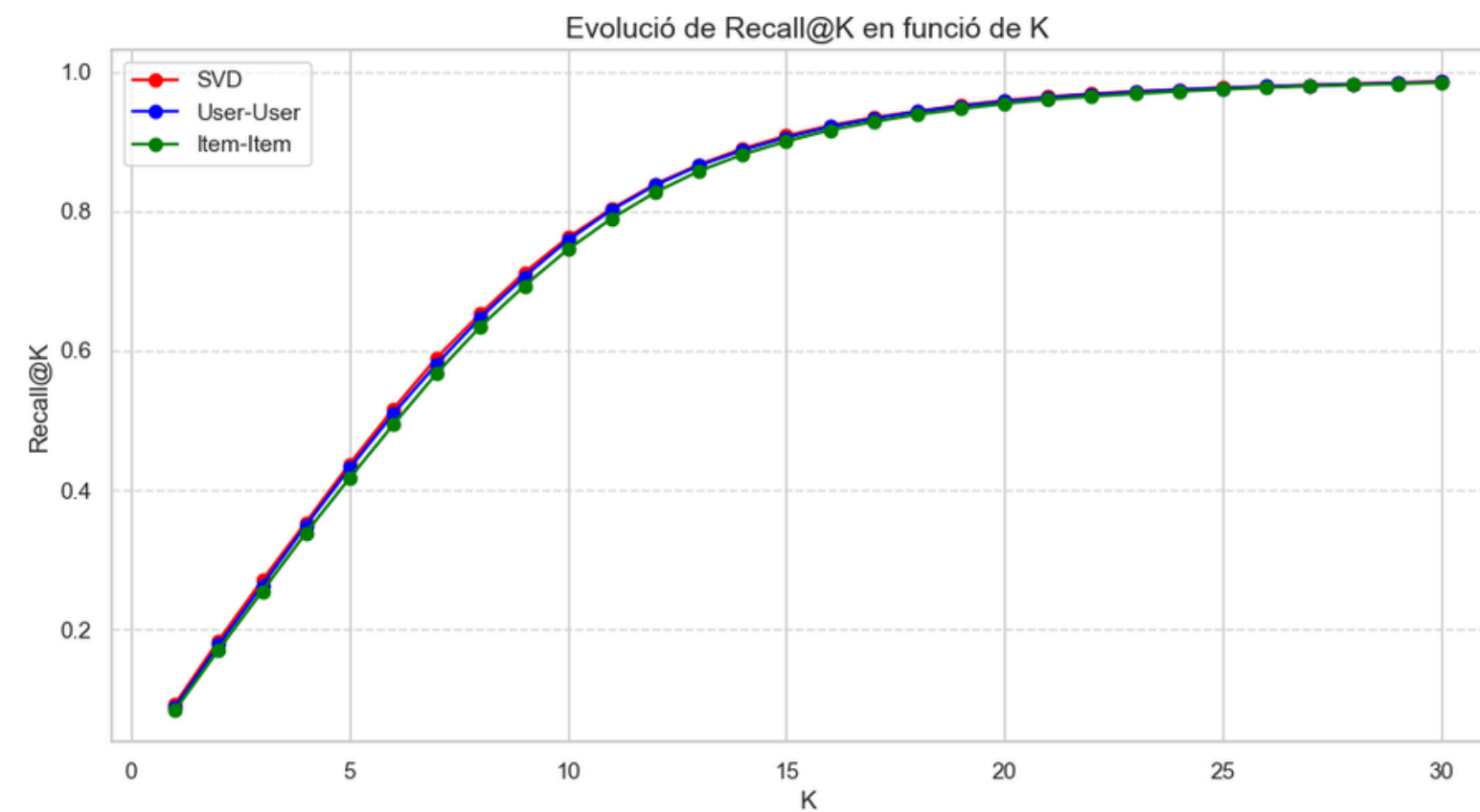
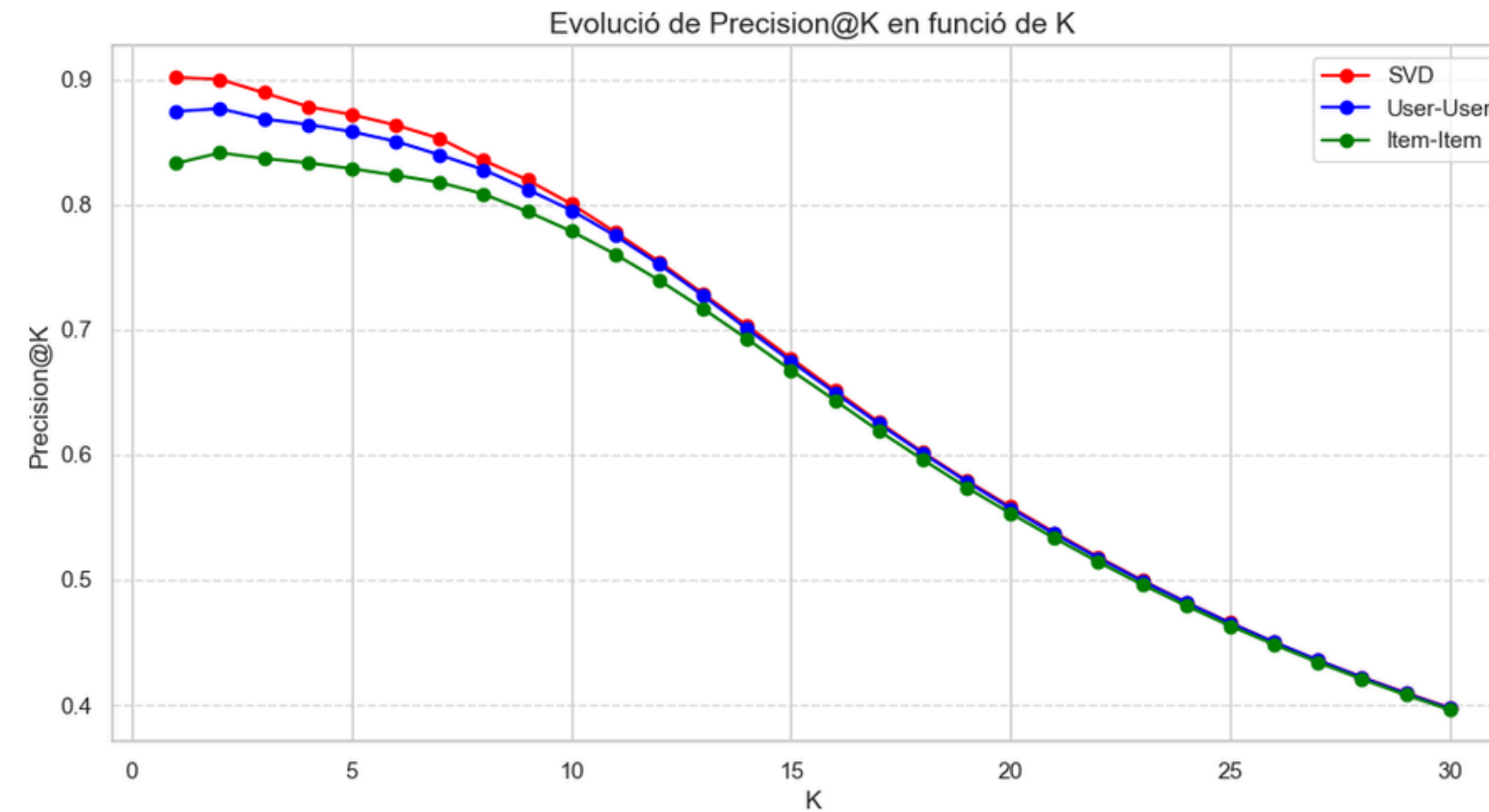
USER-USER vs ITEM-ITEM



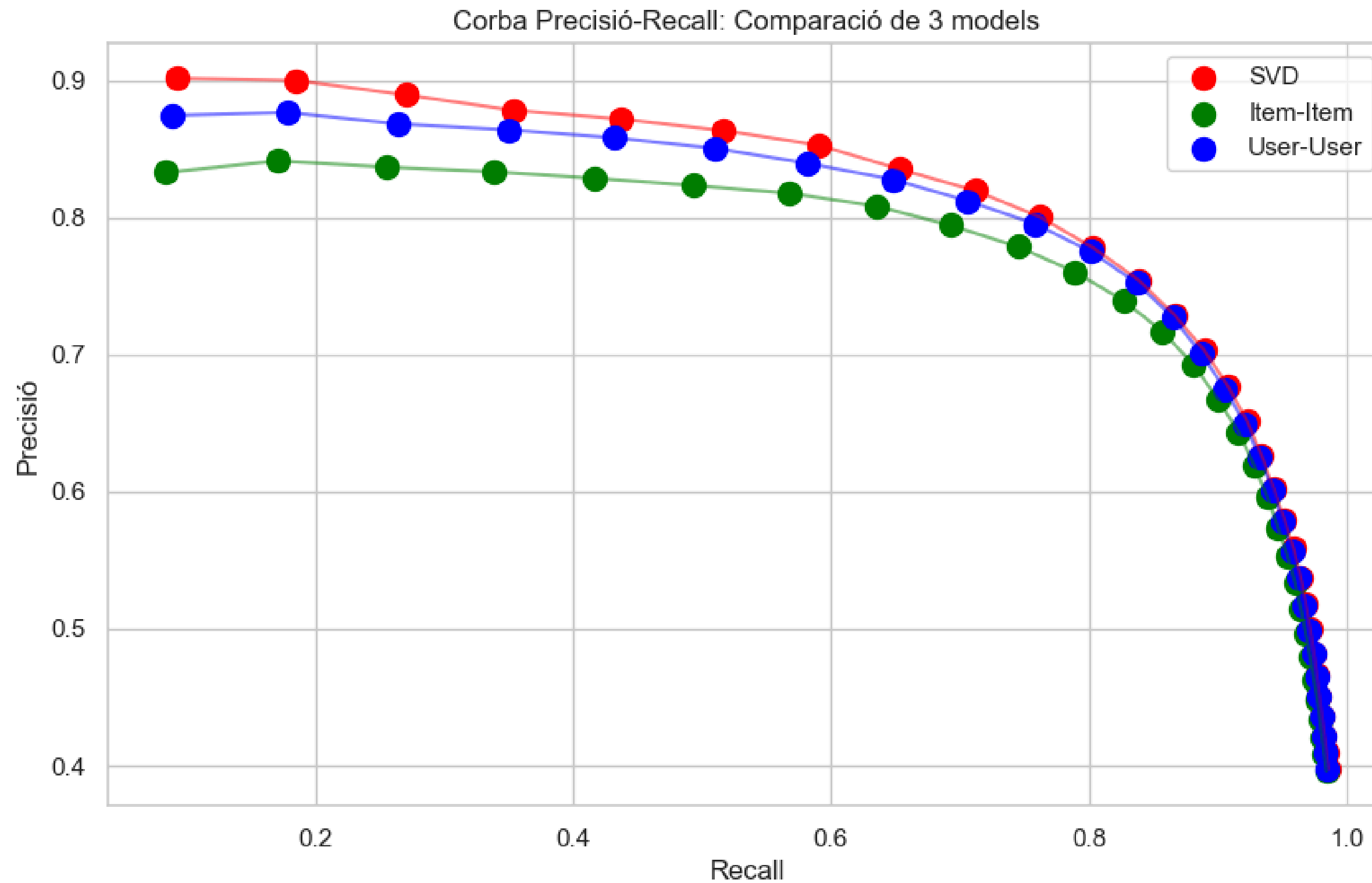
USER-USER vs ITEM-ITEM vs SVD



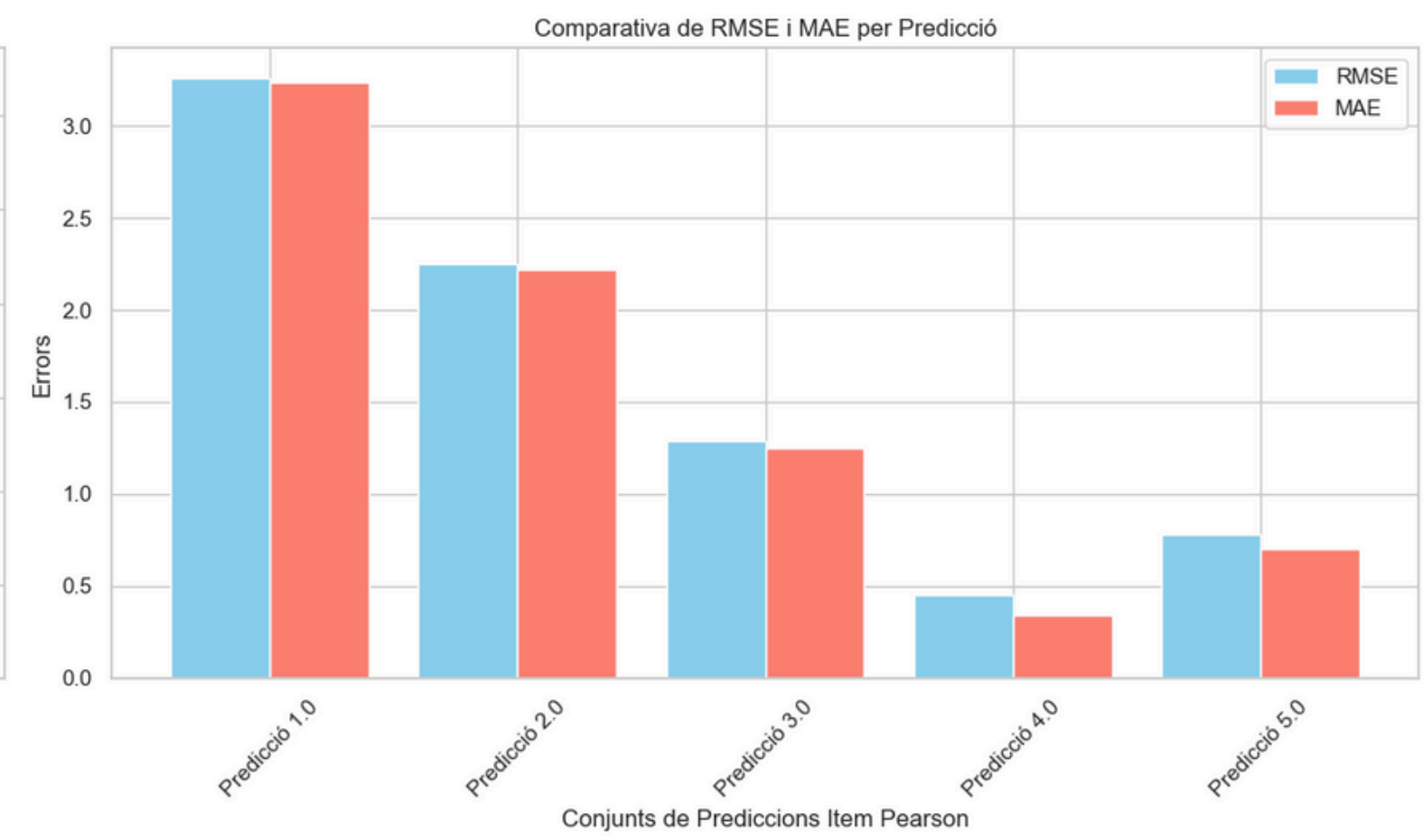
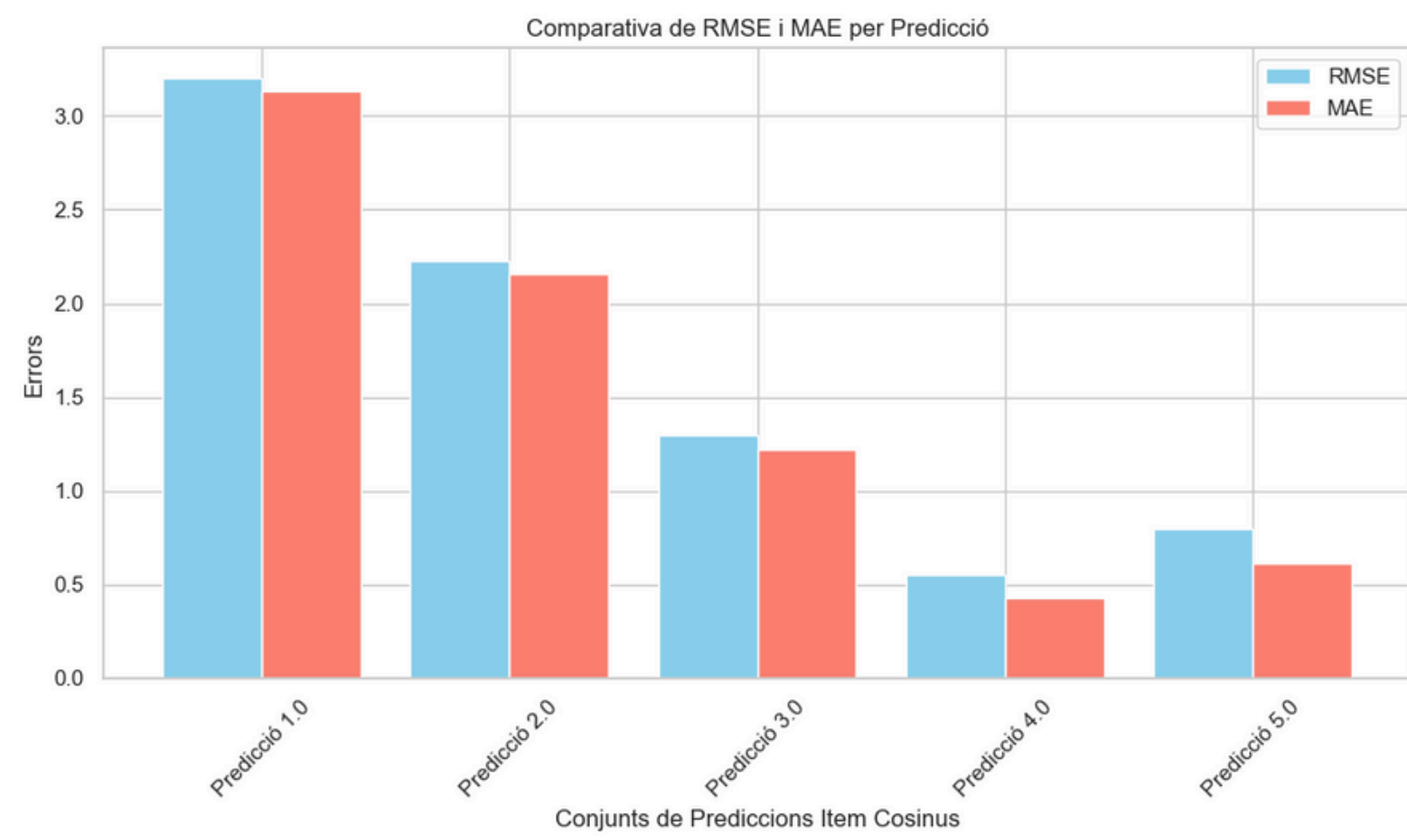
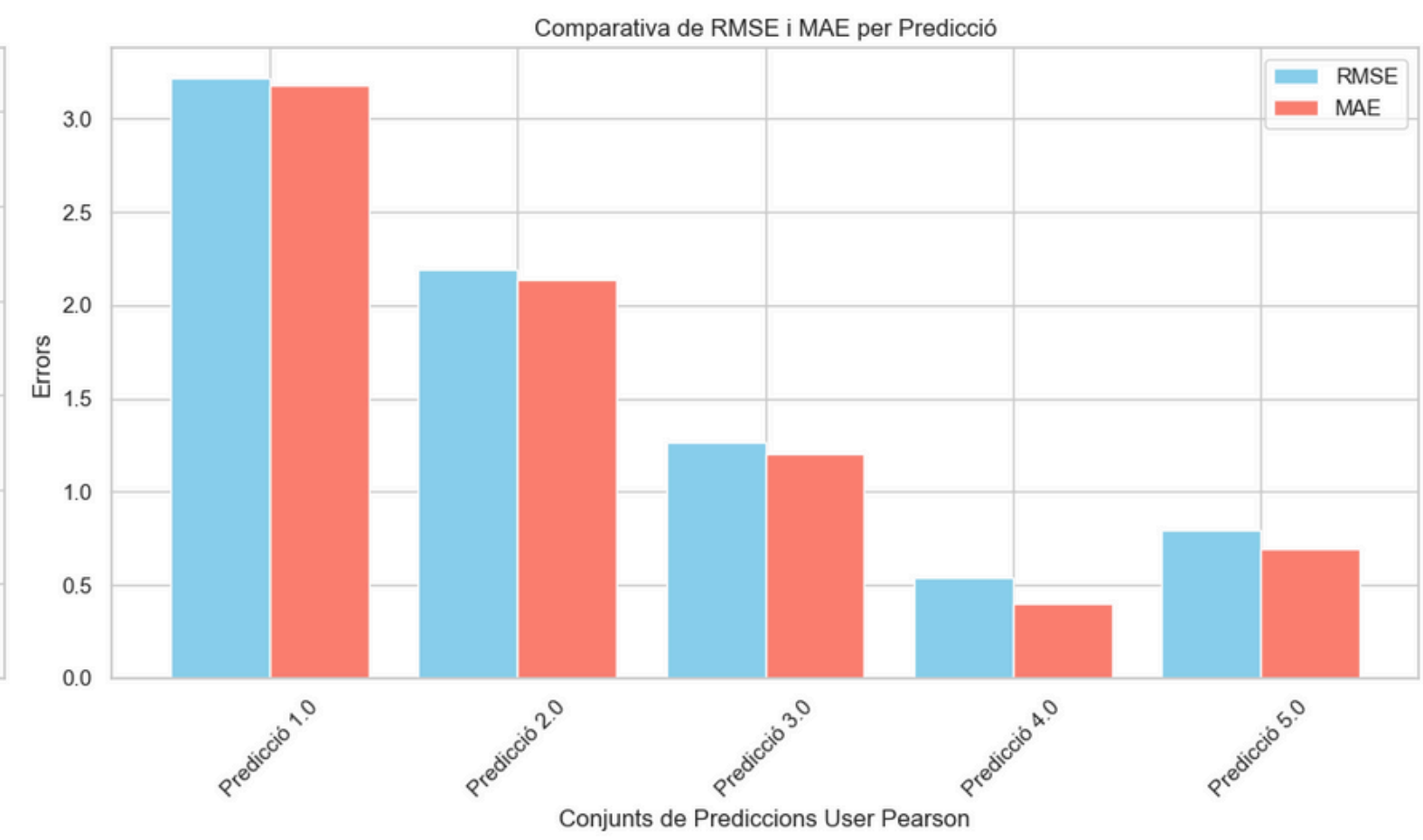
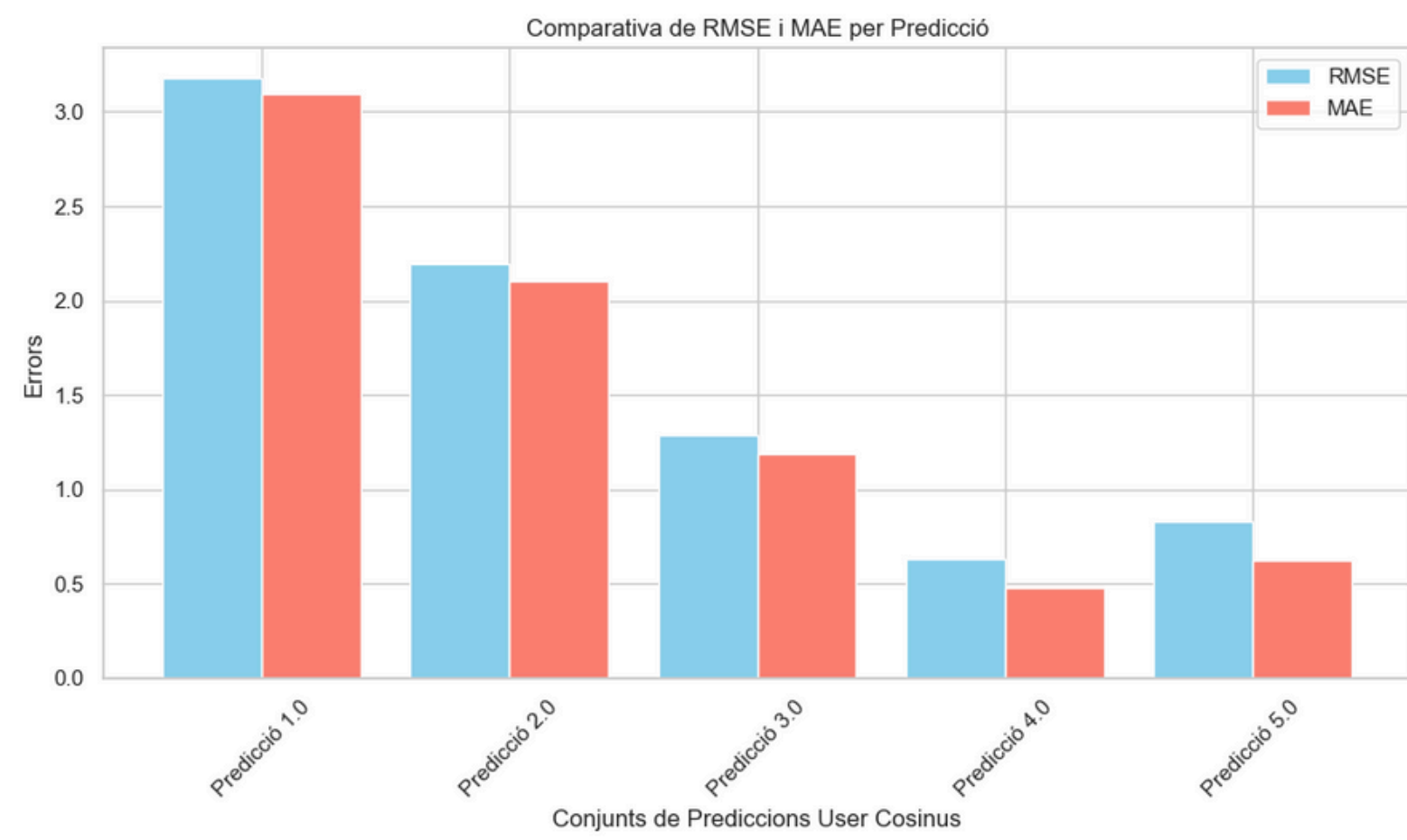
PRECISIÓ I RECALL



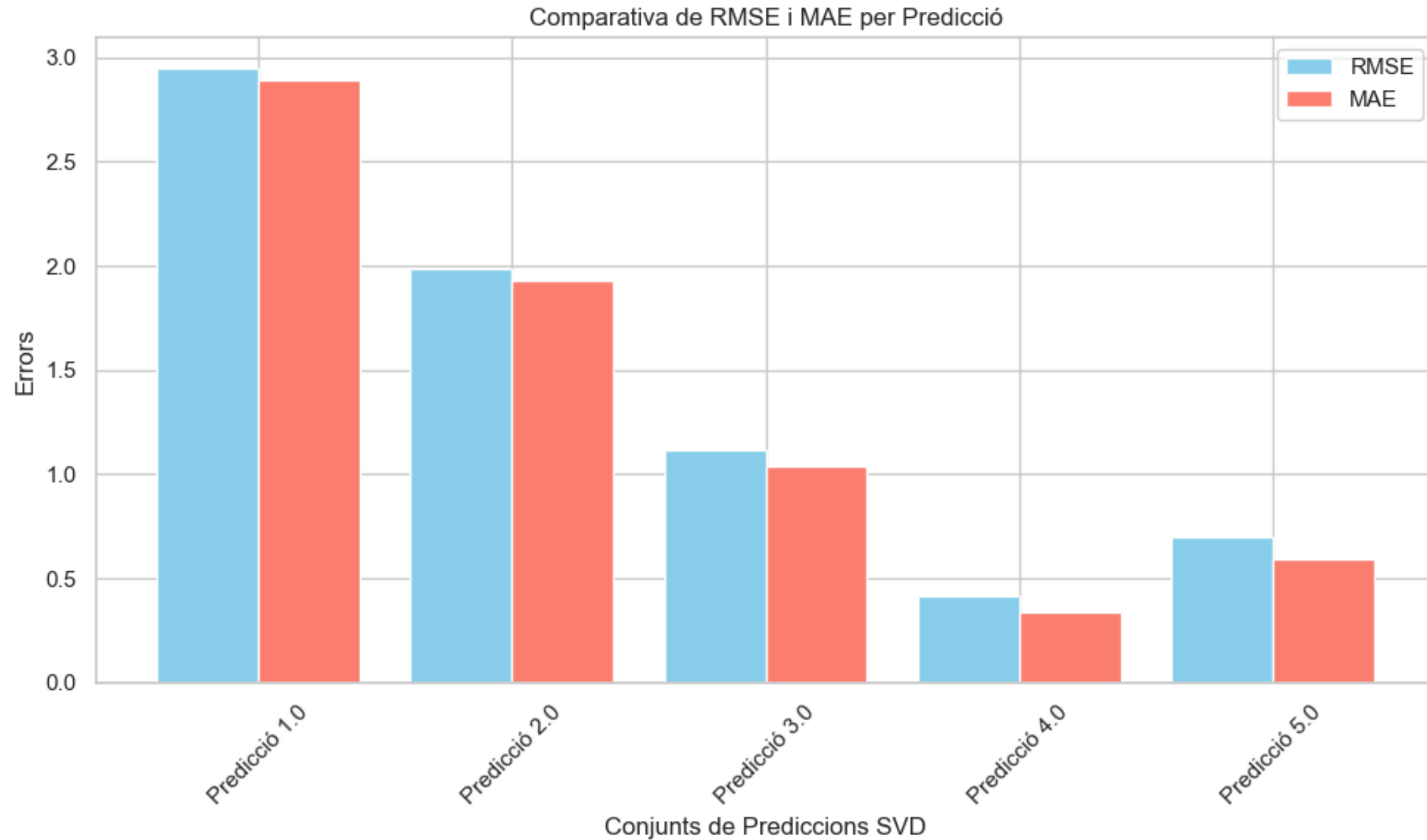
PRECISION-RECALL CURVE



RECOMANACIONS EN FUNCIÓ DE LA NOTA



ERROR SVD



CONCLUSIONS

GRÀCIES PER LA VOSTRA ATENCIÓ!
