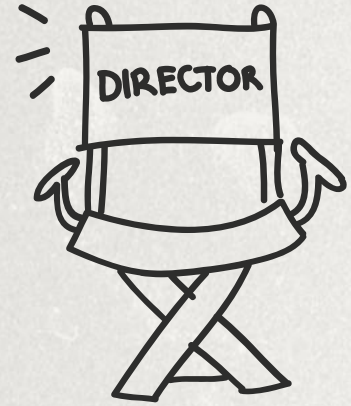


Netflix & Chill...



By Mahum Abid and Hera K.
May 2023

Agenda

01

Business Problem

Movie recommendation



Data

Movie ratings

02

03

Modeling & Results

Hybrid & Collaborative
filtering

Recommendations

Top 5 recommended
movie

04

01

Business Problem



Business problem



Users Id

Identity of users



Movie Genres

Genres of movies

Movie Id

Identity of movie



Ratings

Rating score



02

Data



Data



Data Source

GroupLens Research
MovieLens Dataset



Users

Characteristic Users



Movies & Ratings

Ratings
100,000



700

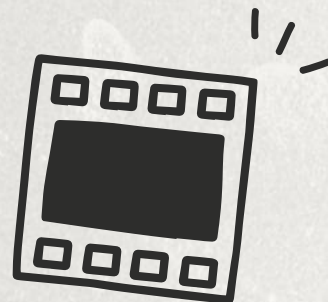
Users

9724

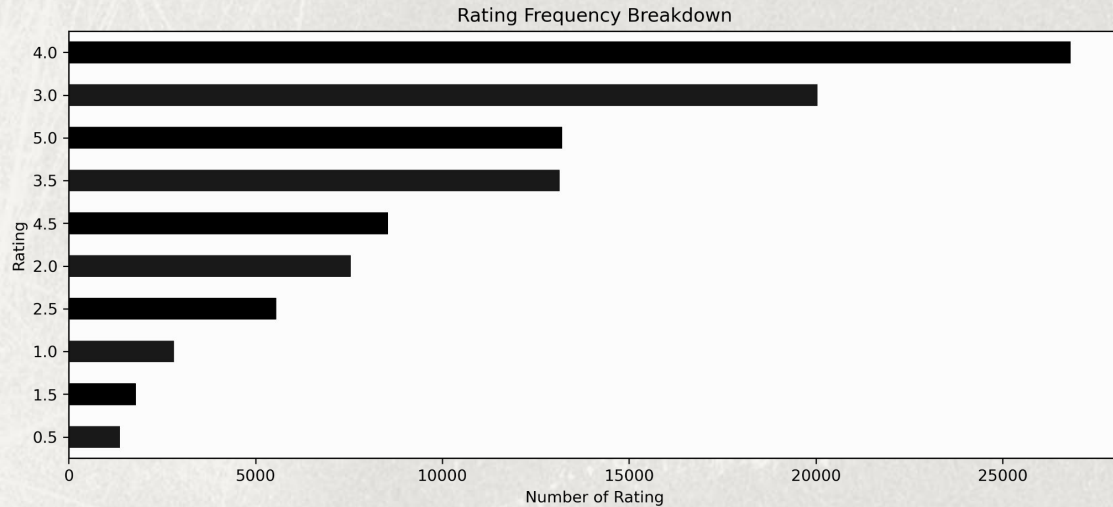
Movies

100K

Ratings



Rating frequency



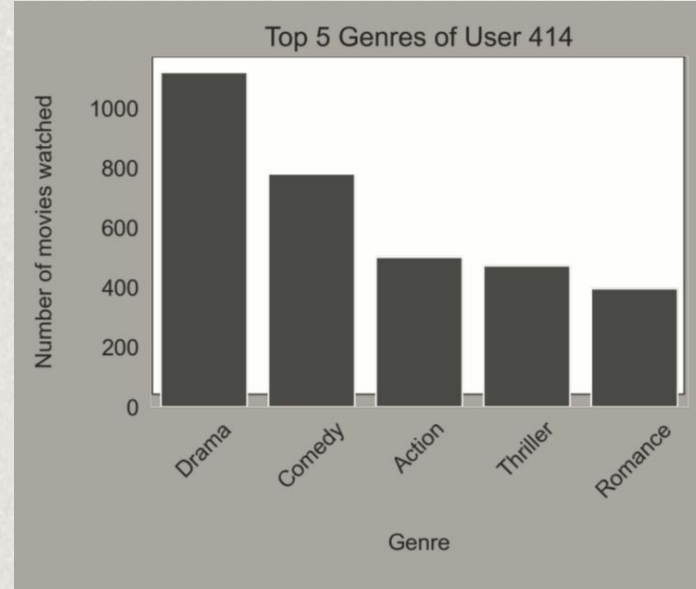
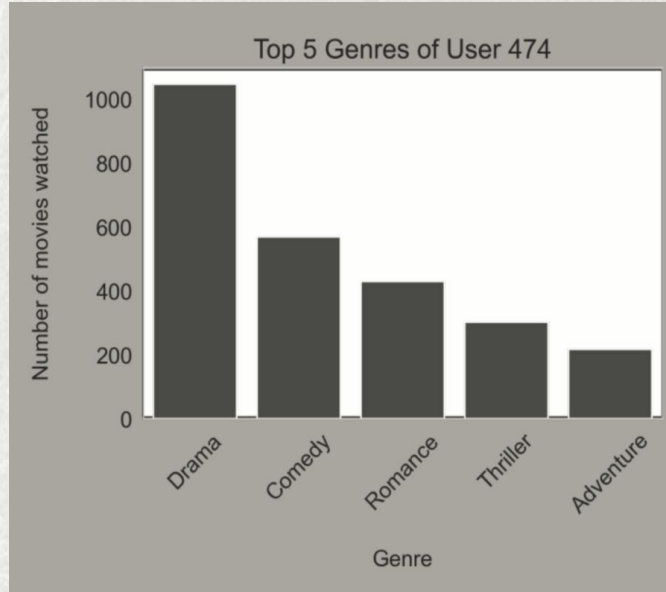
Rating ●

The most used rating : 4

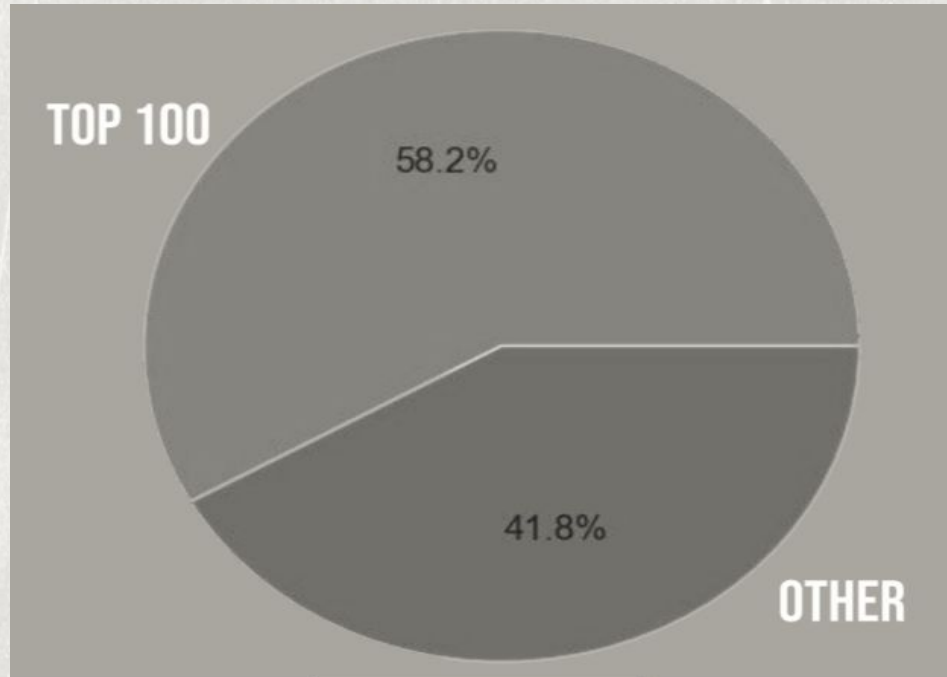
Total Rating ●

100,000

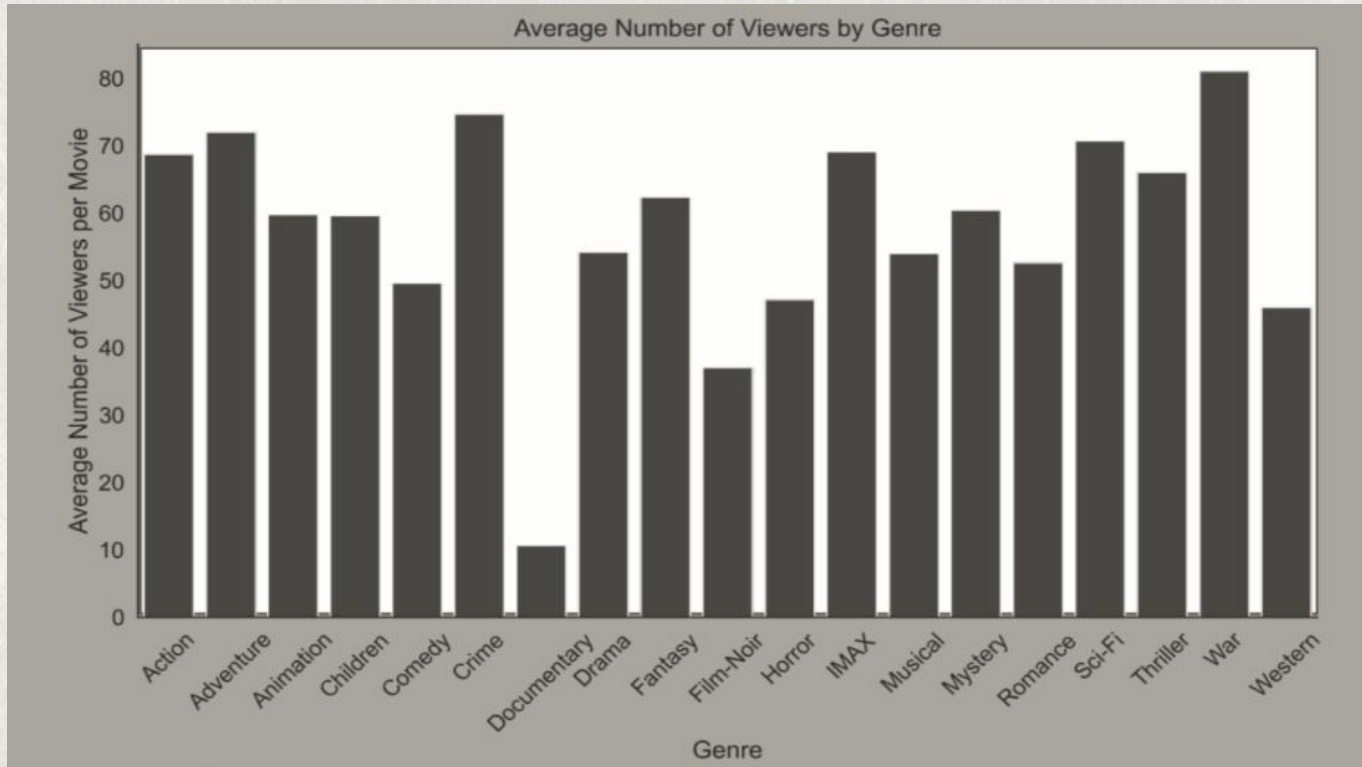
Our super users



*R*ating by top 100 users



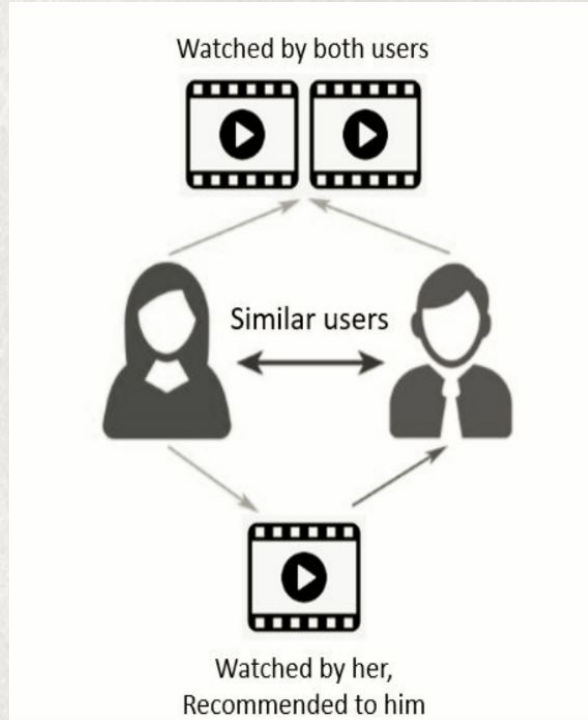
*A*verage viewers by top 10



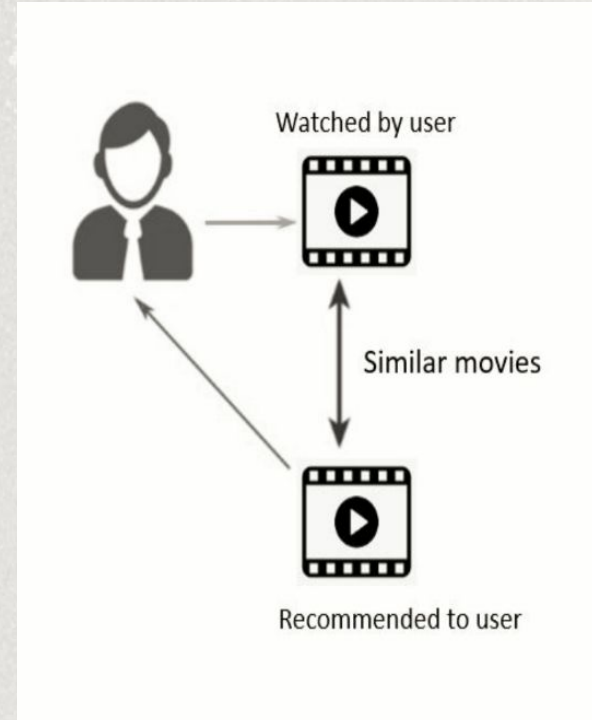
03

Modeling & Results





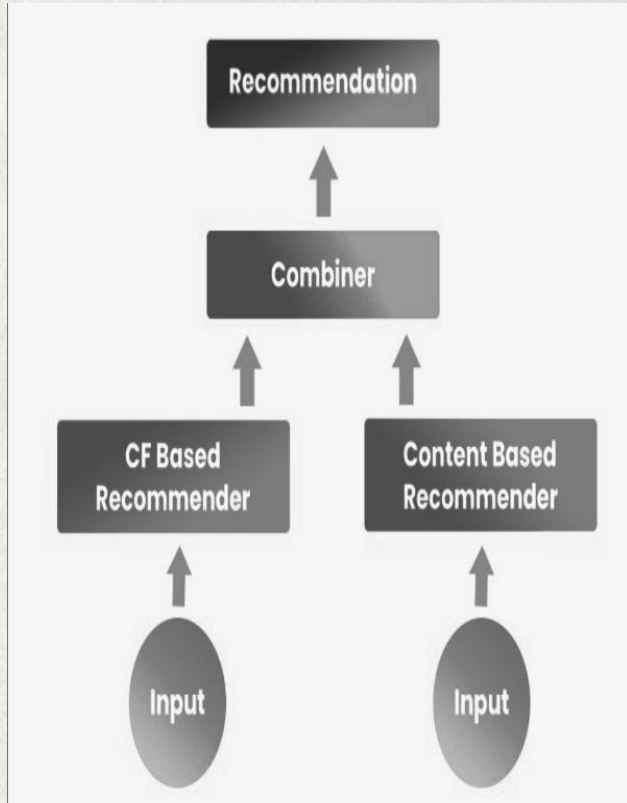
COLLABORATIVE MODEL



CONTENT-BASED MODEL



A robust model Hybrid approach



Hybrid based model

Supermodel average predicted score: 0.9

04

Recommendation



Recommendation systems at work

Our Hybrid based model results

Based on userid #2

Movie Titles ▼	Actual Ratings ▼	Predicted Rating ▼
Step Brothers (2008)	5.00	4.76
Inside Job (2010)	5.00	4.75
Talladega Nights: The Ballad of Ricky Bobby (2006)	4.00	4.25
Kill Bill: Vol. 1 (2003)	4.00	3.82
Zombieland (2009)	3.00	3.65
Shawshank Redemption, The (1994)	3.00	3.63

“

Future insights



Add a like button
User Feedback
Expand Library



Thank You

Do you have any questions?

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