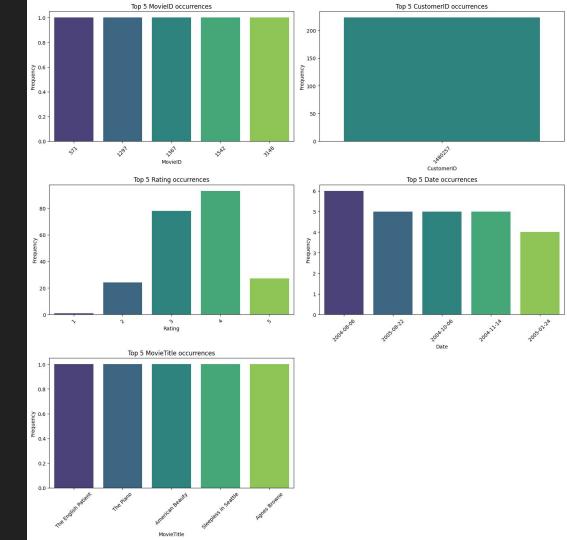
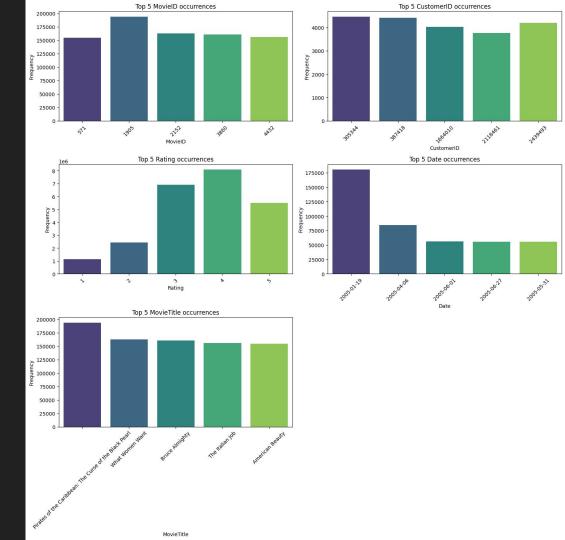
# SNARS - WEEK 13

RECOMMENDATION SYSTEMS

- sample a random user
- plot some statistics

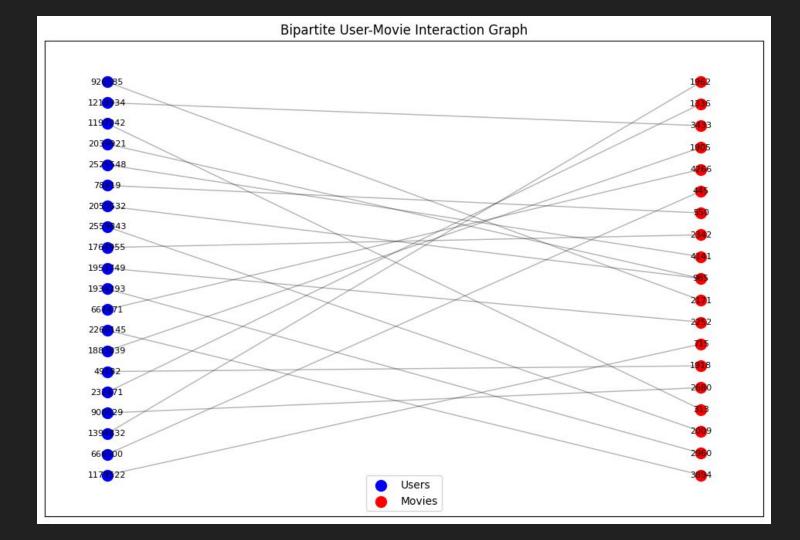


- consider the entire dataset
- plot some statistics



## **User-Movie Interaction Network**

- sample some rows
- build the network
- plot the network

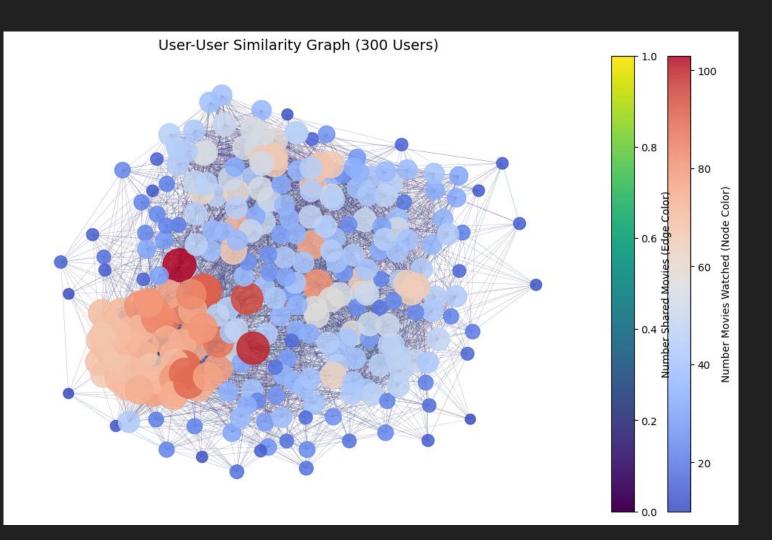


#### **User-Movie Interaction Network**

- now we consider the full dataset
- build the network
- we do not plot it
- we proceed with further analysis on that

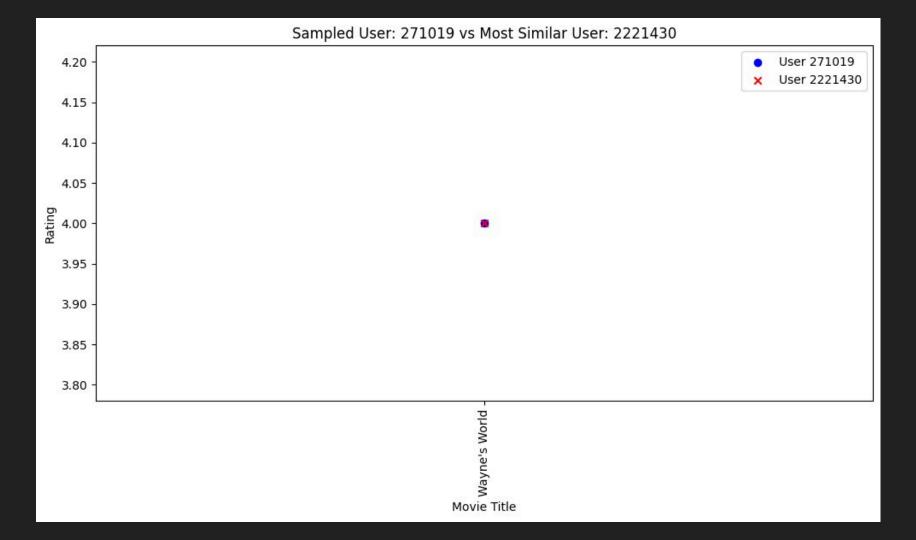
# **User-User Similarity Network**

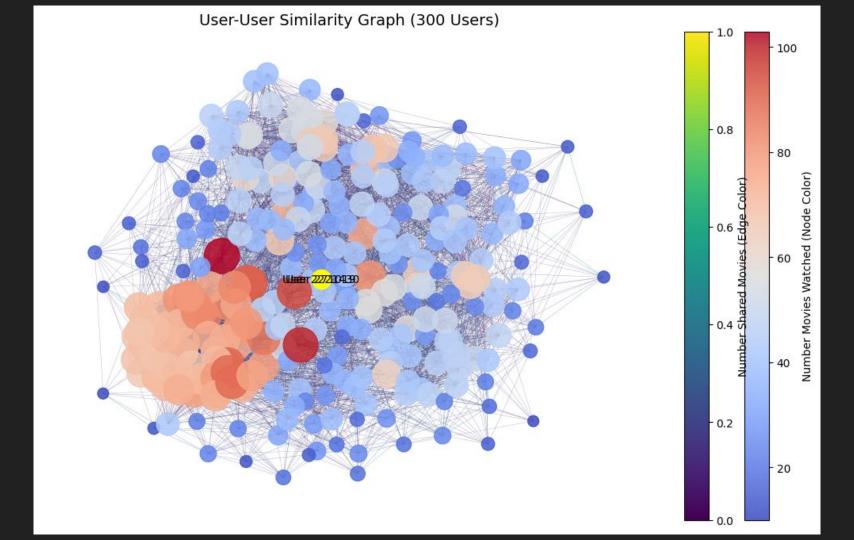
- we project the User-Movie interaction network to User-User similarity network
- the similarity is based on the shared movies and ratings
- we build the network
- we plot a portion of it

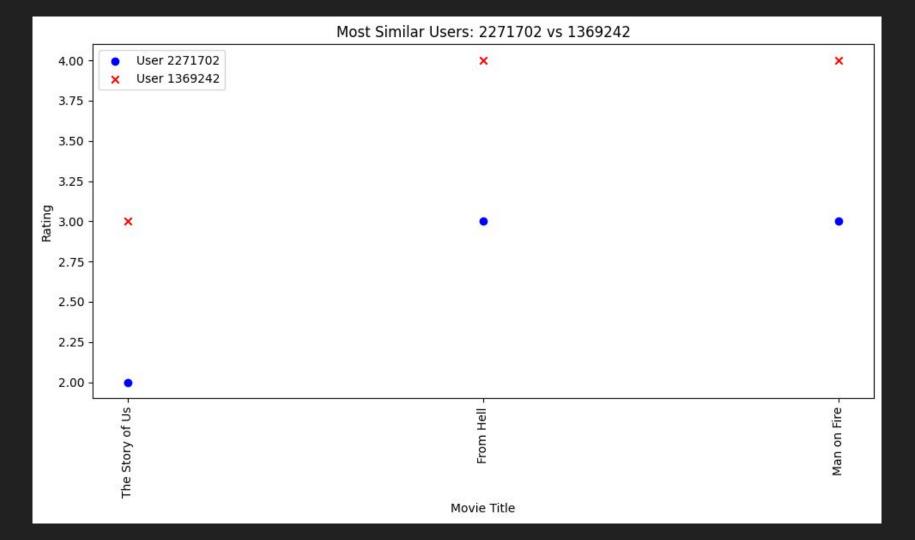


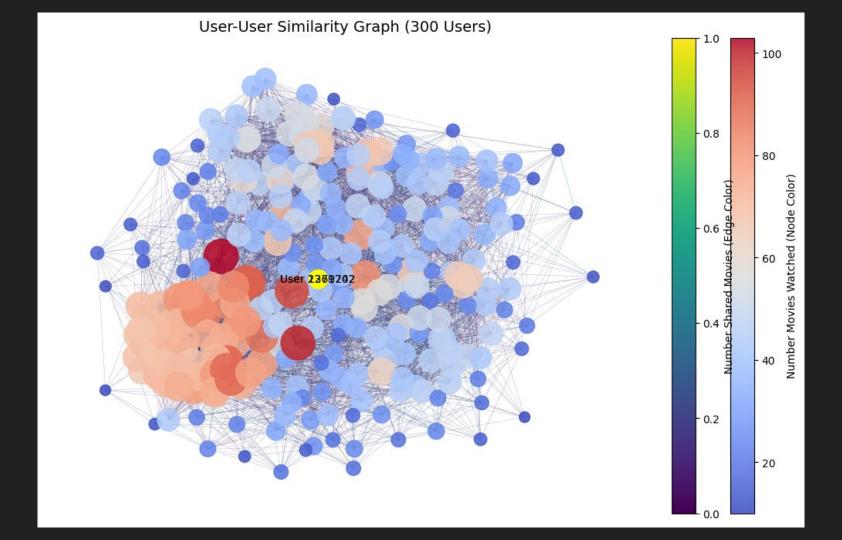
# **Network Analysis**

- 1. sample a random user from the network and find its most similar user
- 2. find the two most similar users within the network



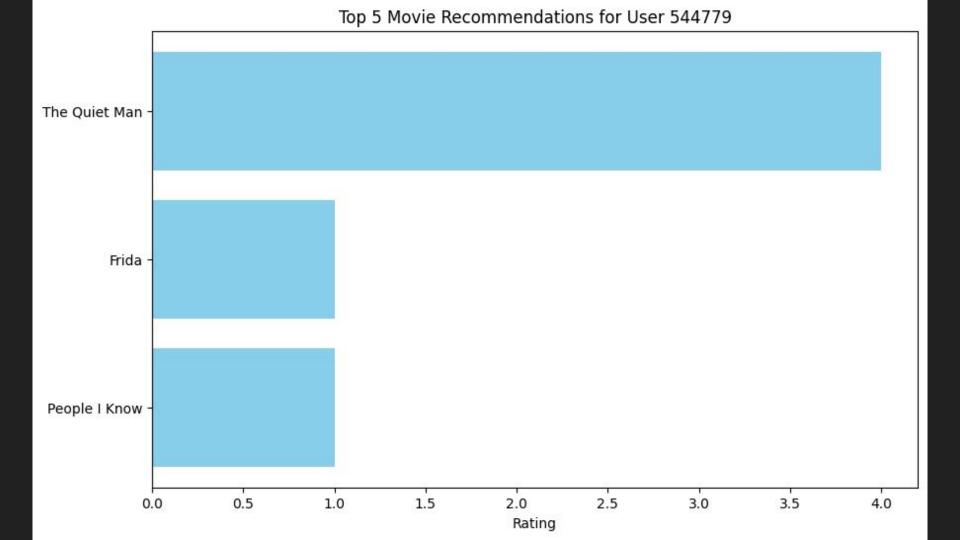






### Generate Movie Recommendations

- based on similarity
- we suggest movies based on most similar user preferences



Thank you for your attention