



BUILDING A MOVIE RECOMMENDER SYSTEM

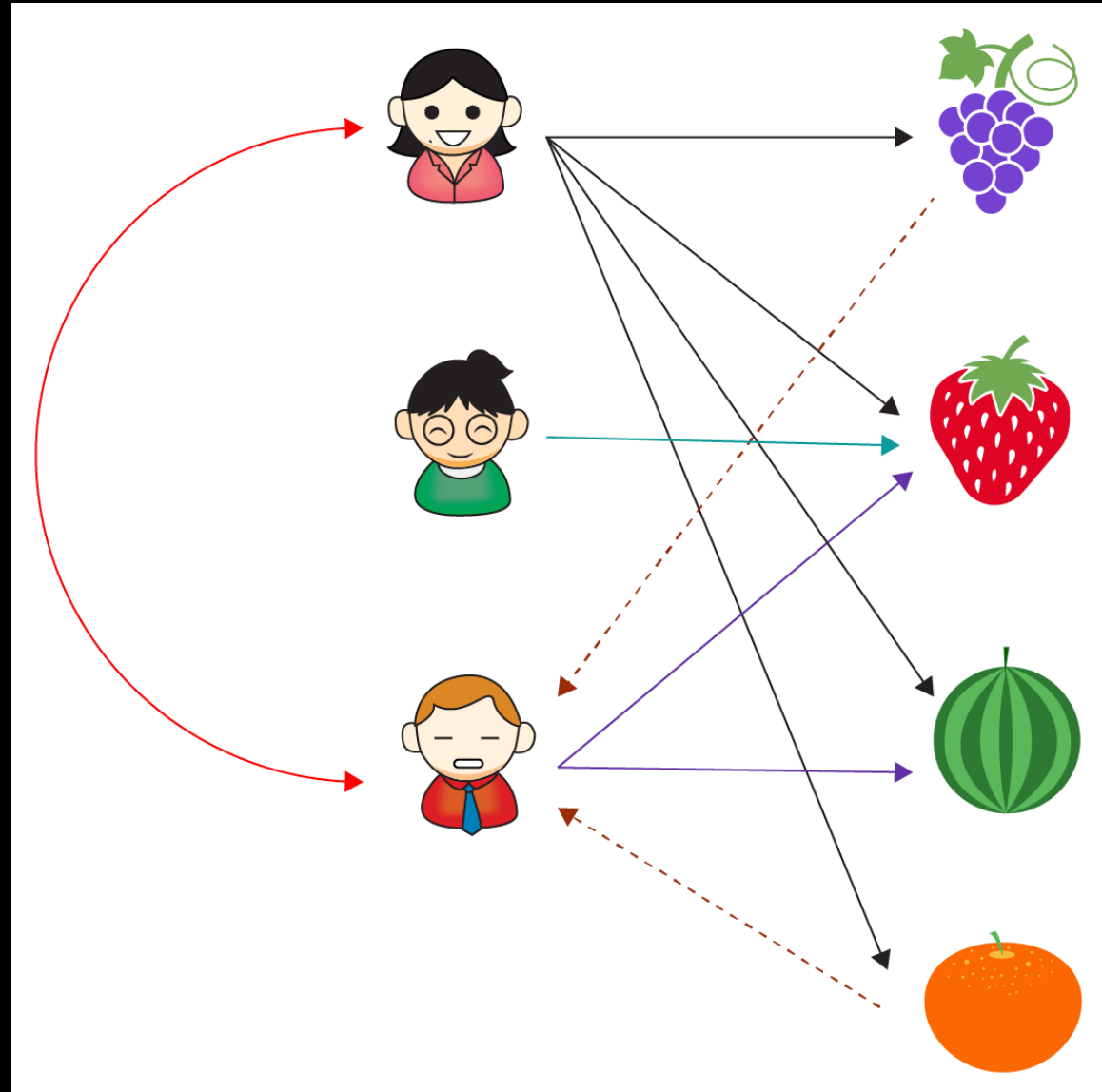
By: John Kundycki

WHY USE A RECOMMENDER SYSTEM?

- Recommendation Systems have played an integral part in the success of online businesses (Amazon, Hulu, Netflix, Spotify, Youtube...).
- With so many choices in terms of making purchases or entertainment, recommendation systems make navigating and narrowing choices easier.
- Recommender Systems increase revenue. For Amazon, these systems bring more than 30% of their total revenue. For Netflix, 75% of movies that people watch are based on some sort of recommendation.

COLLABORATIVE FILTERING

- Collaborative filtering for building a model
- Recommendations based on things other users have purchased or liked with similar tastes to you
- One of the most popular systems for making recommendations



THE MOVIELENS DATASET

- To build a movie recommender system, the popular public dataset from MovieLens was used.
- Collection of over 100,000 real world ratings for many different films
- Users rate movies 1-5 based on how they liked the movie



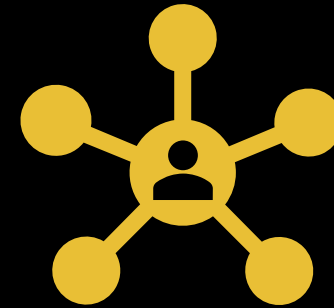
RECOMMENDATION SYSTEM

- Recommendation System successfully built on the MovieLens Datasets – The model would predict what ratings a user would give a movie based on their previous ratings and recommend the highest rated predictions
- Most modern and successful recommendation systems have moved to a thumbs up or thumbs down system because they are better predictors of user behavior
- Attempted to modernize the problem by creating a binary system – Thumbs Up/Thumbs Down

FUTURE WORK



Create a stronger recommendation system
by trying different hyperparameter tunings
or different models altogether



Create a more intuitive GUI so that any user
can interact with the model

Questions?





Thank you!

BUILDING A MOVIE RECOMMENDER SYSTEM

By: John Kundycki