

Netflix Shows Recommendation System

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SELF-PACED

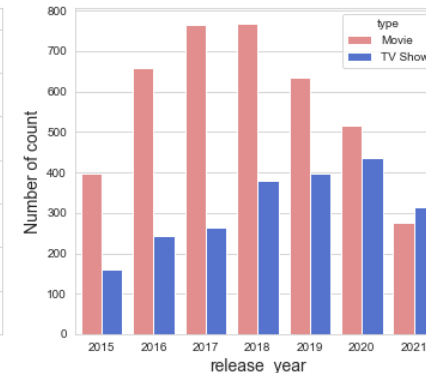
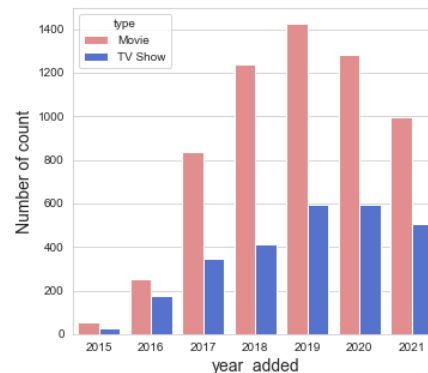
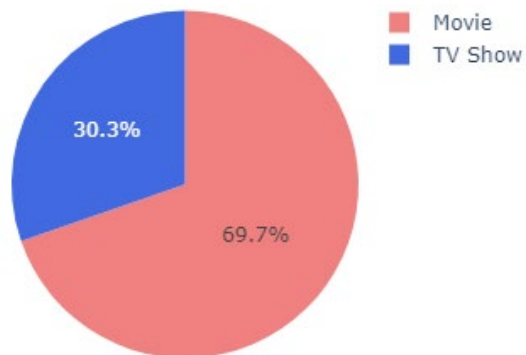


Outline

- Netflix shows dataset
- Netflix shows recommendation system
 - Data exploration of individual features
 - Content-based recommendation system
- Conclusion & future work

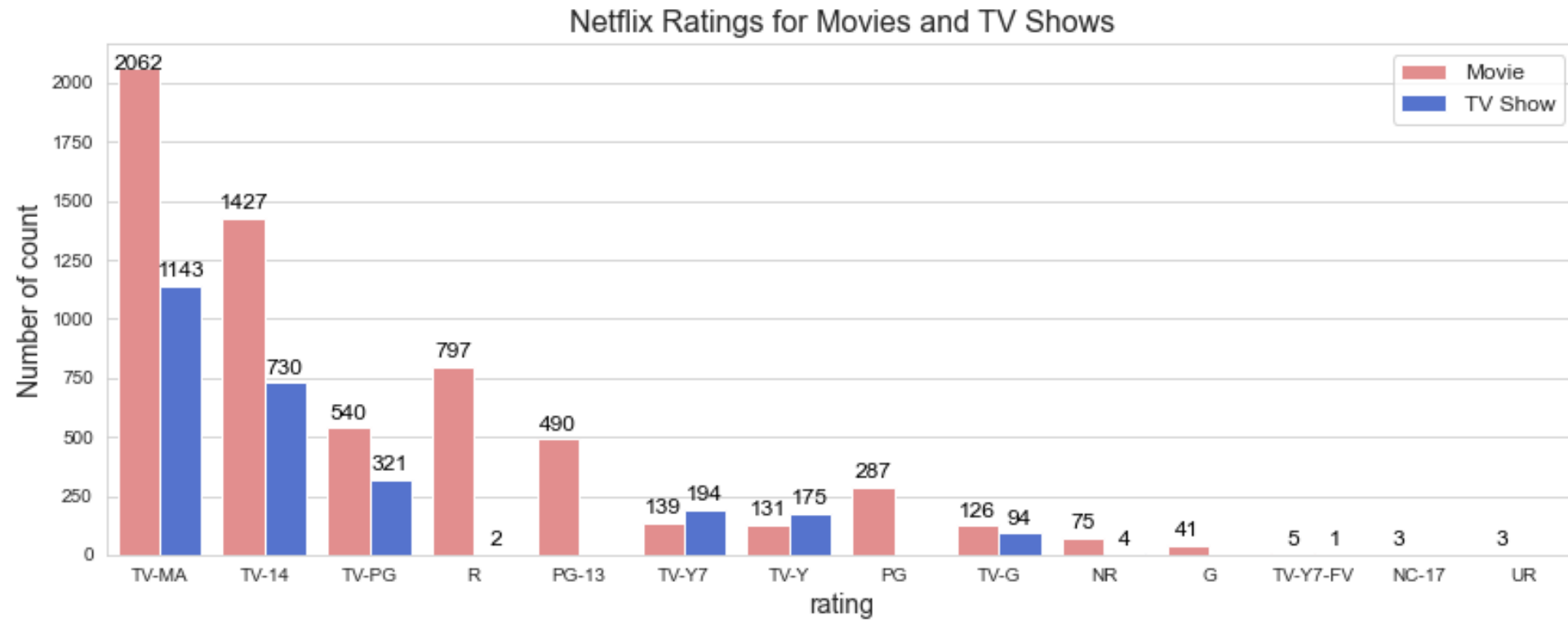
Netflix shows dataset

- Data Source
 - Downloaded from Kaggle.com
- Data Summary
 - 8807 records of shows
 - Related features for recommendation:
 - Director, cast, rating, listed_in, description, ...
 - More movies (6126) than TV shows (2664)



Netflix shows recommendation

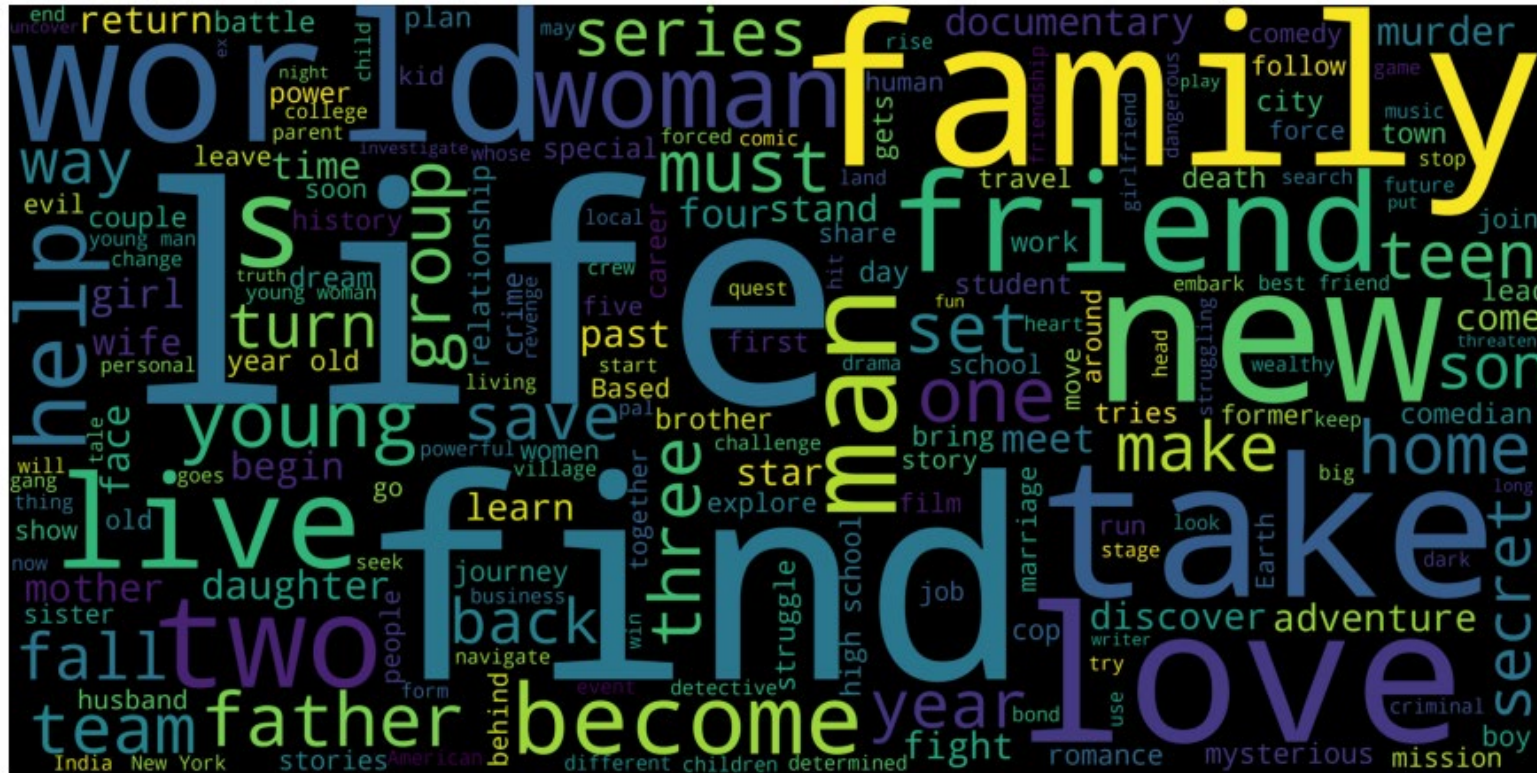
- Data Exploration of related features: ratings



Netflix shows recommendation

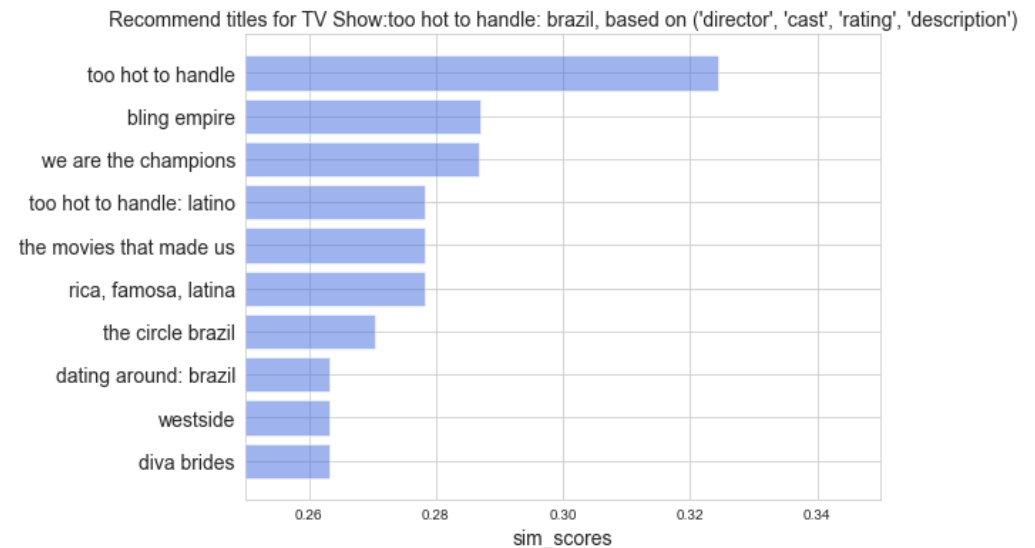
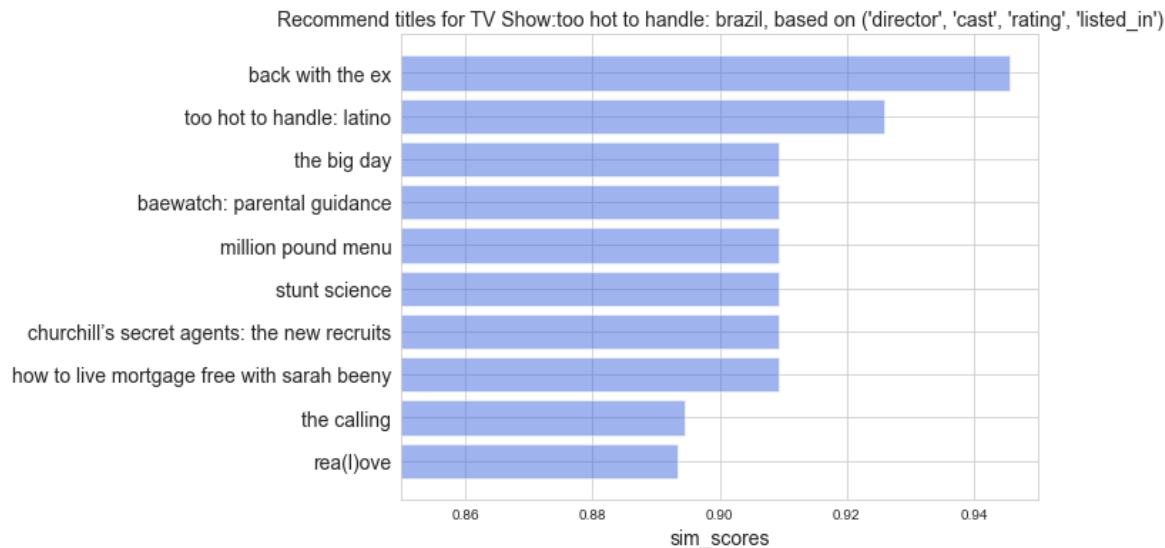
- Data Exploration of related features (cont.): description

Word Cloud of the description



Netflix shows recommendation

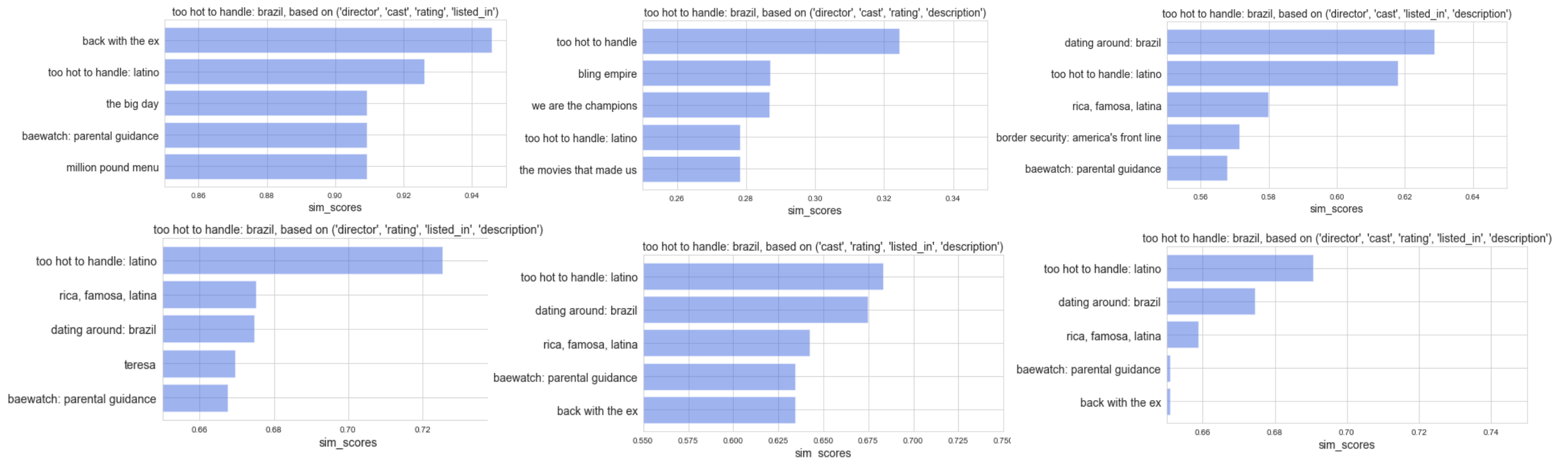
- Content-based recommendation system
 - Recommended items for six different combinations of features: Director, cast, rating, listed_in, description



Netflix shows recommendation

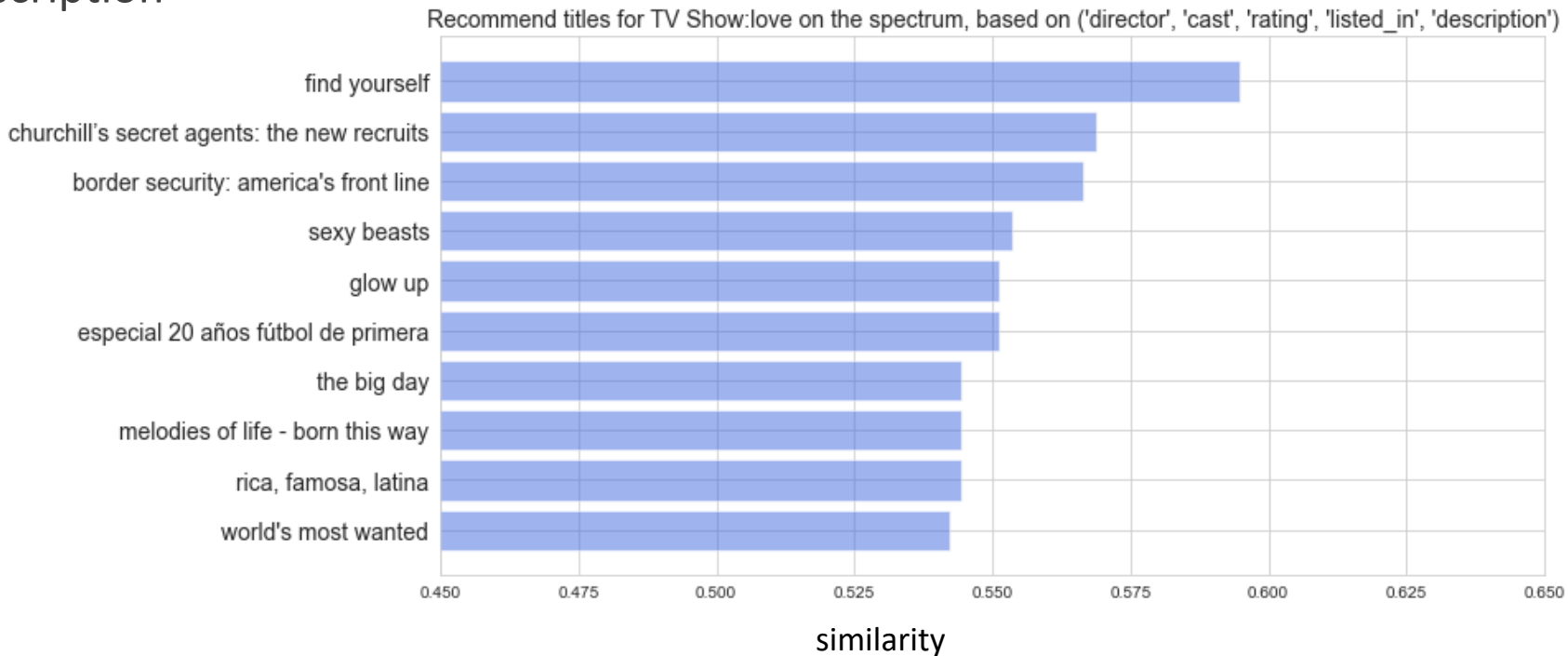
- Content-based recommendation system
 - Recommended items for six different combinations of features: Director, cast, rating, listed_in, description

'too hot to handle: brazil'



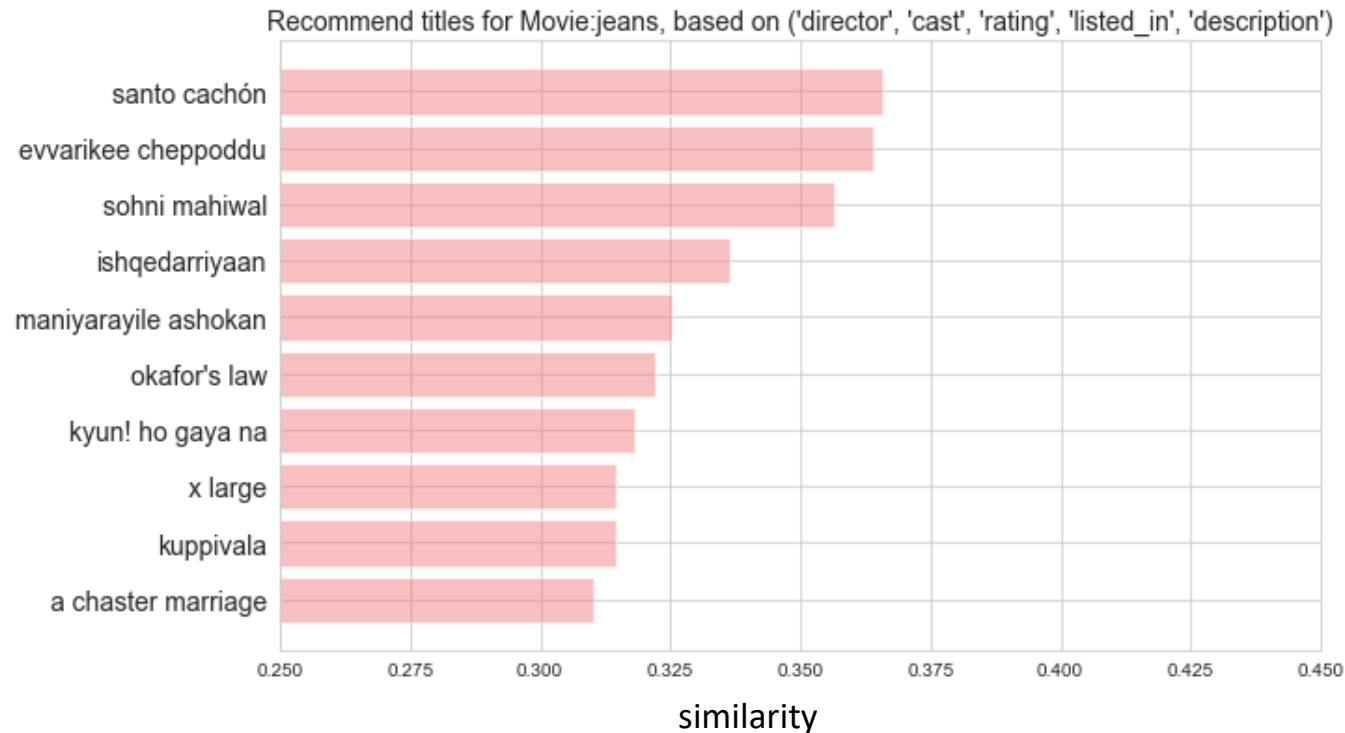
Netflix shows recommendation

- Content-based recommendation system
 - Representative example for a TV show based on features: Director, cast, rating, listed_in, description



Netflix shows recommendation

- Content-based recommendation system
 - Representative example for a movie based on features: Director, cast, rating, listed_in, description



Conclusion & future work

- A content-based recommendation system was successfully developed
 - It could suggest existed titles if the input title is not existed
 - It could suggest different numbers of titles in the rank of similarity
- Future work
 - With the accumulated records of user selection of shows, a collaborative filtering recommendation system could be developed with more accuracy

Thanks for your attention!

