

# Netflix Shows Recommendation System

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GUOFA SHOU

SELF-PACED



# Outline

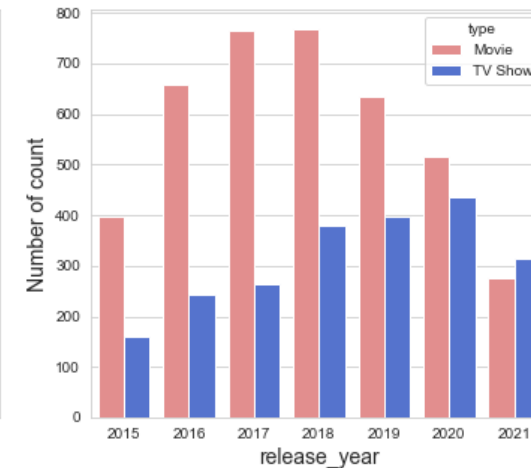
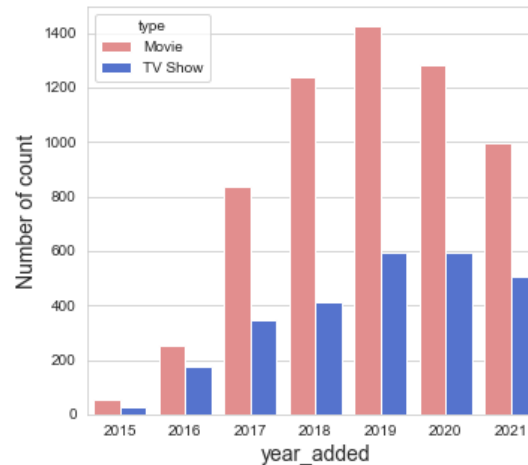
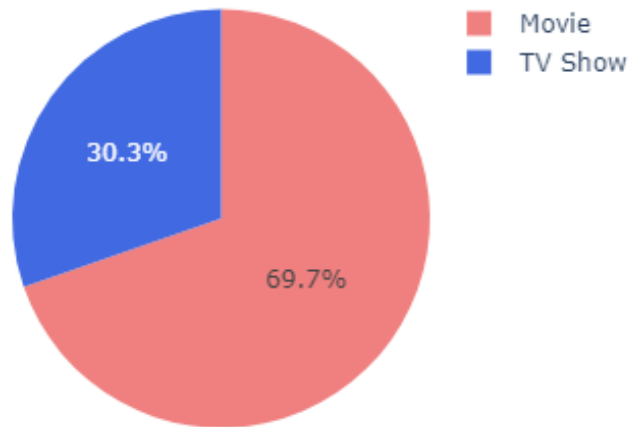
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- Netflix shows dataset
- Netflix shows recommendation system
  - Data exploration of representative features
  - Content-based recommendation system
- Conclusion & future work

# Netflix shows dataset

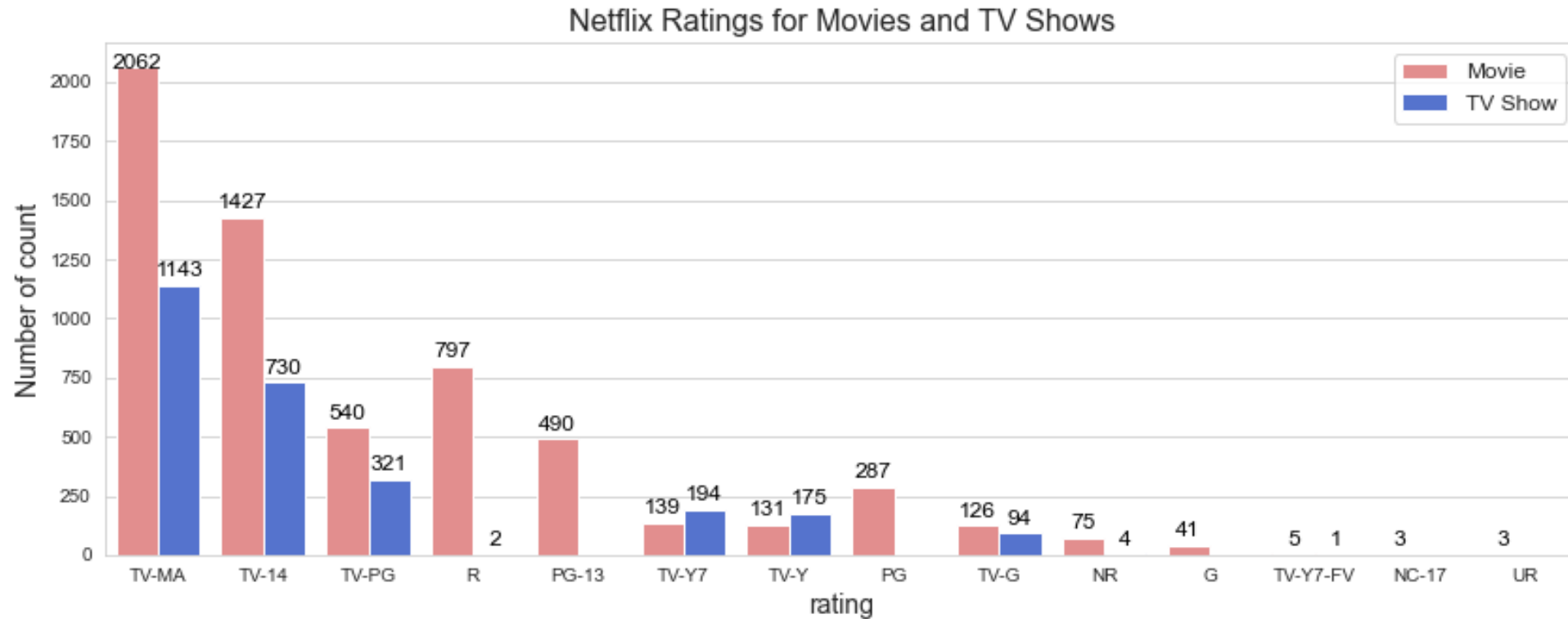
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- Dataset
  - Source: Kaggle.com
  - Summary
    - 8807 shows & 12 features:
      - Director, cast, rating, listed\_in, description, ...
    - More movies (6126) than TV shows (2664)



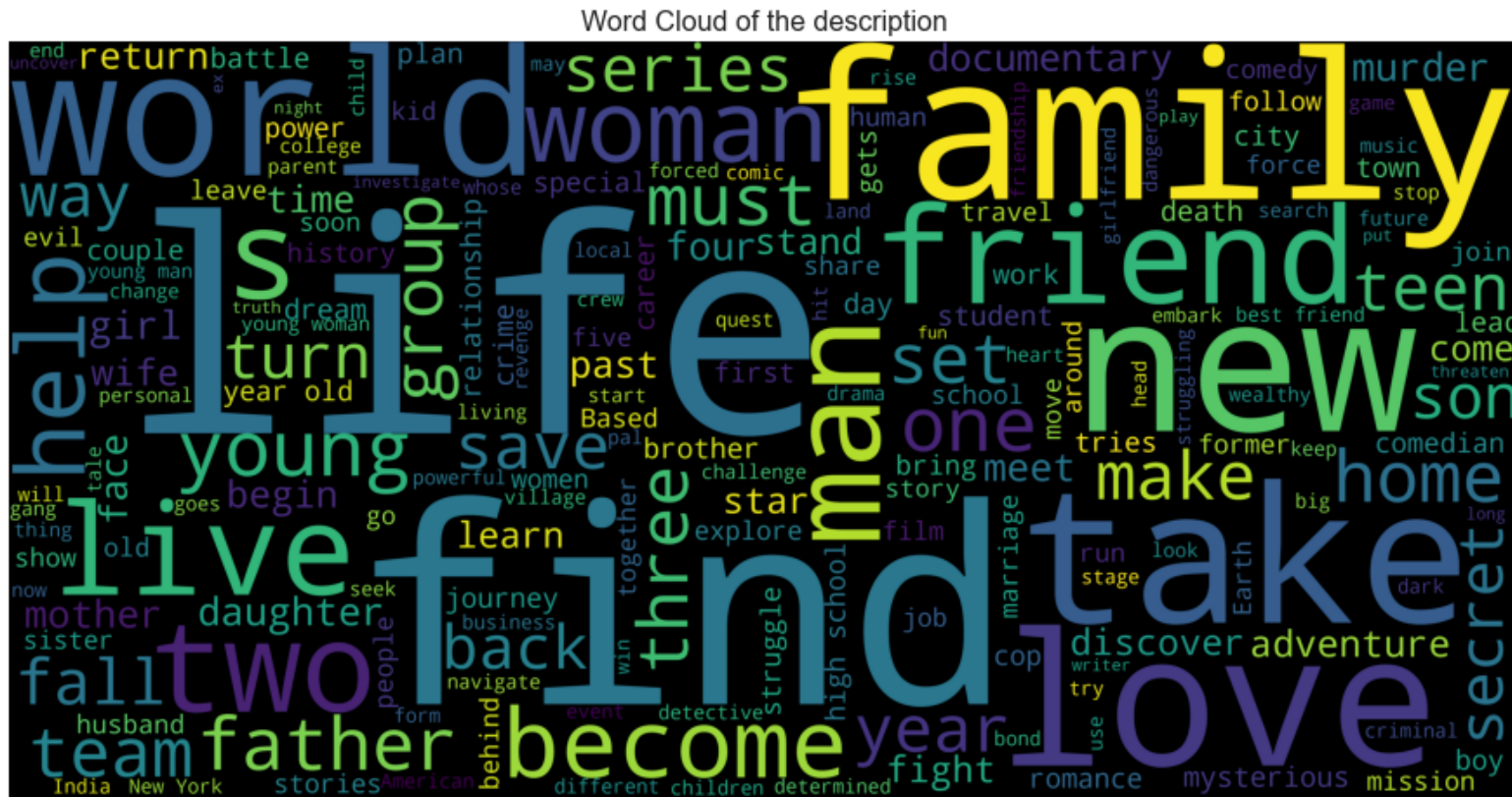
# Netflix shows recommendation

- Data exploration of representative feature I: ratings



# Netflix shows recommendation

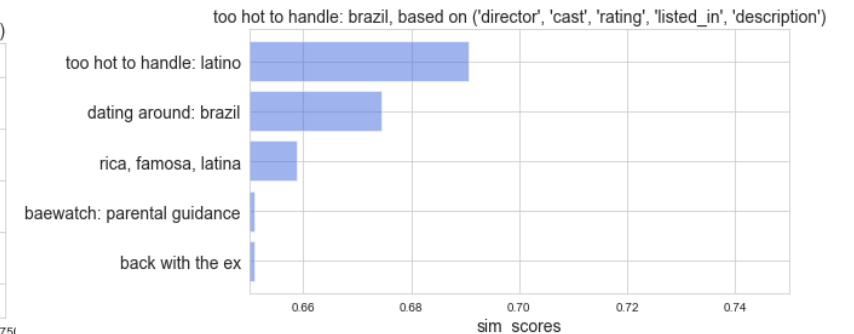
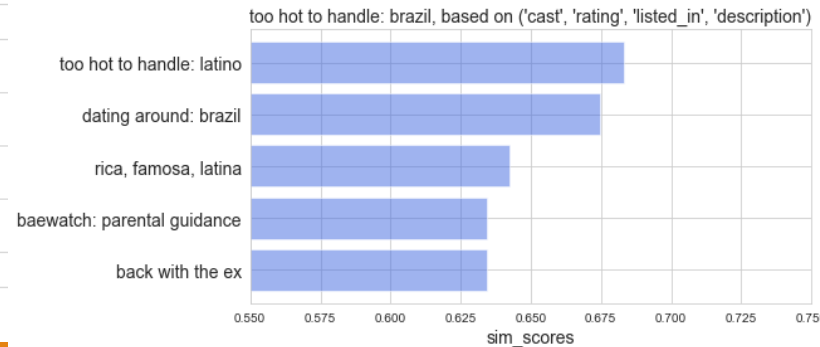
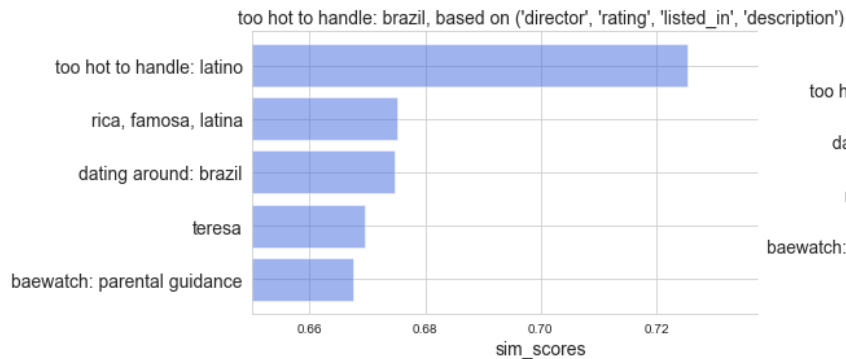
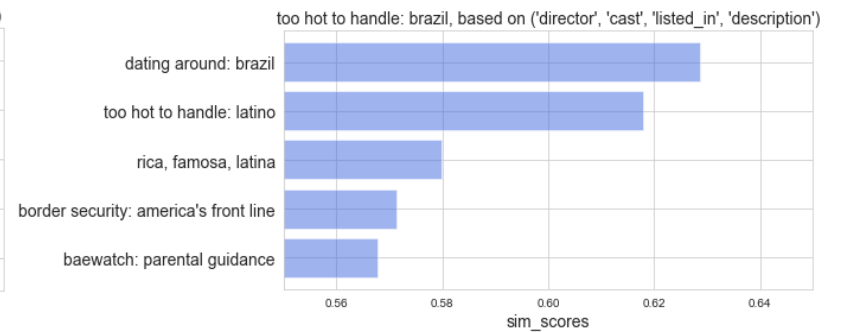
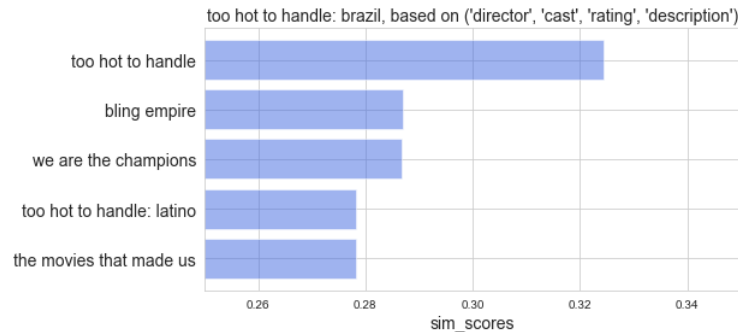
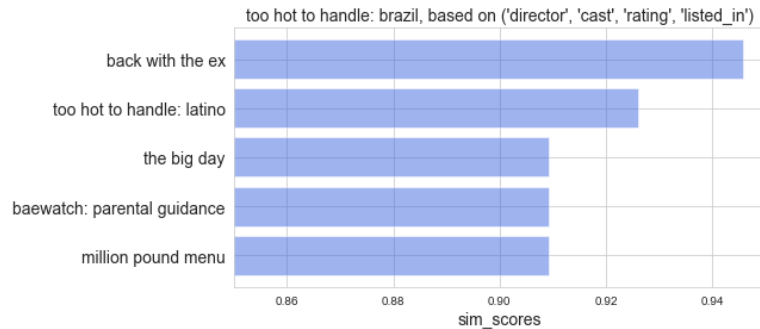
- Data exploration of representative feature II: description



# Netflix shows recommendation

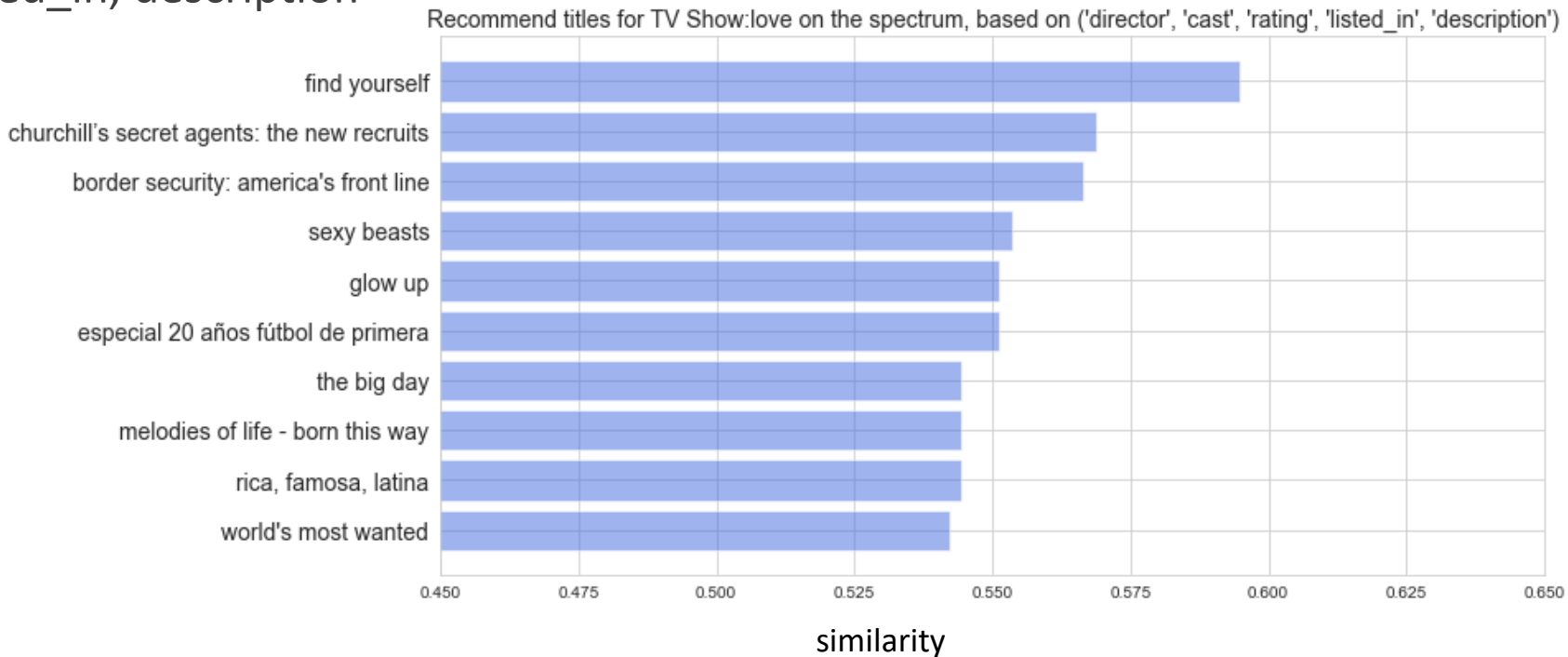
- Content-based recommendation system
  - Recommended shows: comparisons of six different combinations of features from director, cast, rating, listed\_in, description

'too hot to handle: brazil'



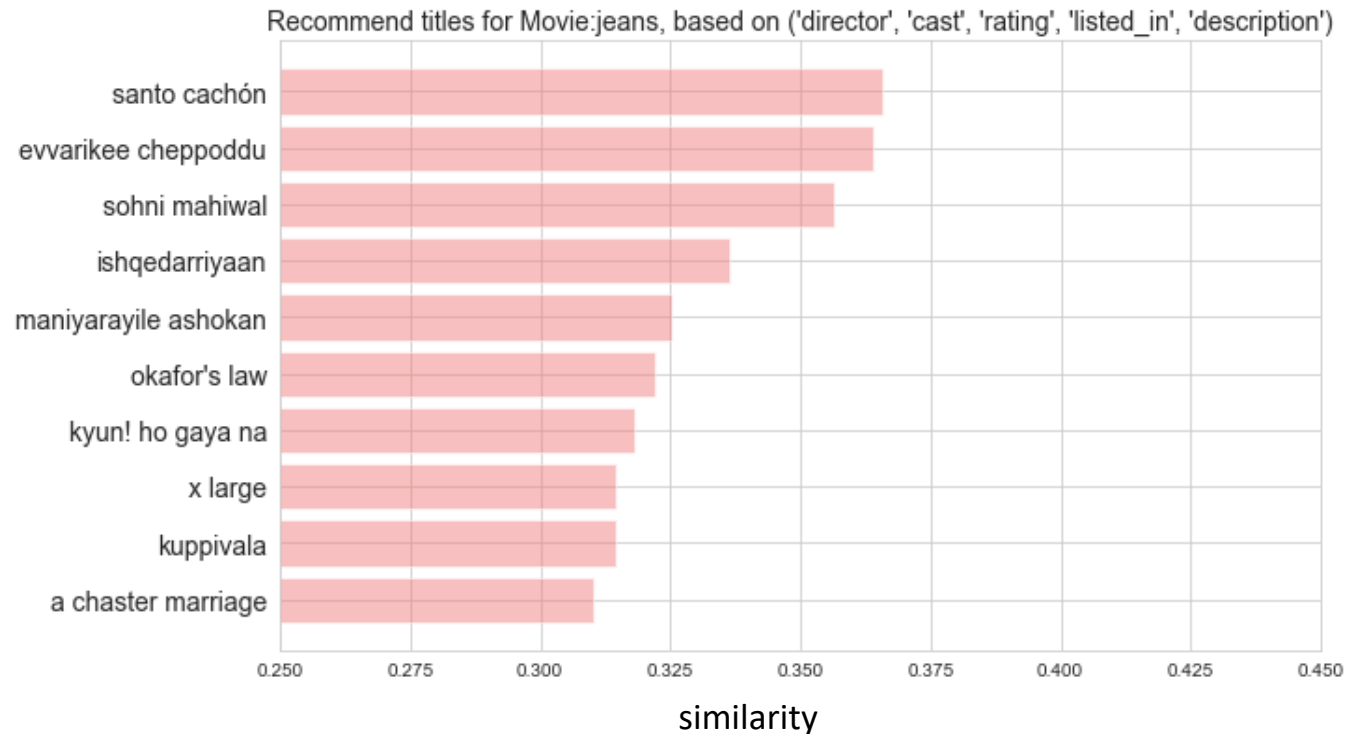
# Netflix shows recommendation

- Content-based recommendation system
  - Representative example for a TV show based on combined features of director, cast, rating, listed\_in, description



# Netflix shows recommendation

- Content-based recommendation system
  - Representative example for a movie based on combined features of director, cast, rating, listed\_in, description





# Conclusion & future work

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

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Thanks for your attention!

