CODE HEROKU

Building a Movie Recommendation Engine

Submit your doubts / completed assignments to: hello@codeheroku.com

Exercise

I. Scientific Paper Reading
Read the following paper and answer the questions below:
http://www.codeheroku.com/static/workshop/hw/movie_recommendation/MovieRecommenderSystem.pdf

a. What are some of the problems that authors faced during implementation of a recommender system? And how did they go about solving them?
b. What approach did authors take to evaluate the performance of their recommendation system?
c. How did authors fix problems of high memory and compute time requirements of their recommendation system?
d. What are the different models/approaches that authors compare in their paper?

II. Programming
a. Our current implementation of the recommender system uses content-based filtering and doesn't take into account popularity or ratings of a movie while recommending movies to a user. Implement a hybrid recommendation system that uses *vote_count* / *vote_average* features from the dataset to provide better recommendations.
b. Which additional features could be used to improve the quality of the recommendation system? How would you go about deciding which features to use?