Recommender – Case study

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Observations

1. Data has 1,218,325 observations with 50,692 users and 141 items.

2. Ratings : -10 to 10

3. Dense rating matrix (Solver : als in factorization recommender)

Recommenders Tested

Recommender

- Training RMSE : 2.61
- Validation RMSE : 6.92

Factorization Recommender

- Regularization : 0
- Training RMSE : 2.98
- Validation RMSE : 5.58

Ranking Factorization Recommender

- Training RMSE : 2.61
- Validation RMSE : 6.96

Item Similarity Recommender

- Validation RMSE : 5.53

Learnings / Next steps

1. Add side features to further tune the model
   1. Use TF-IDF on joke data to determine the side features

2. Try preprocessing the data to avoid coldstart