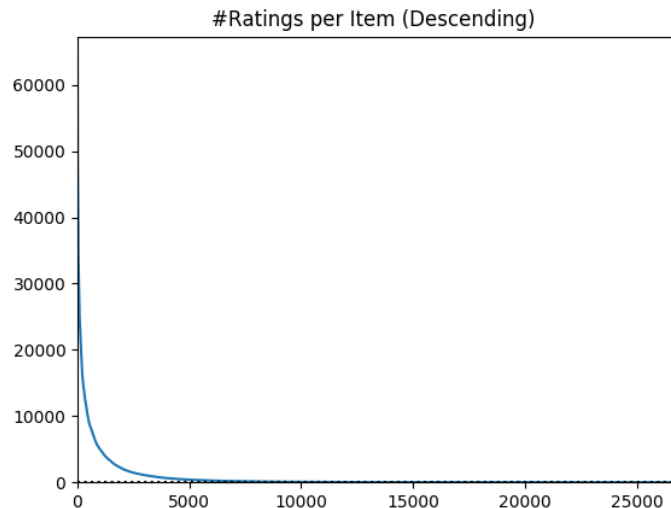


Item Popularity

Prediction

$$\hat{x}_{ui} = \frac{\text{\#interactions with item } i}{\text{\#interactions}}$$

Power-Law Nature of #Interactions



Frequency Distribution of Movielens-20M Ratings

Pros & Cons

- + simple & efficient
- + no parameters to train
- + solves cold-start problem
- + works well due to power-law nature of interactions
- no tailoring of recommendations to users' specific preferences