7-4: FunkSVD Training Algorithm

Introduction

- Last lecture discussed learning SVDs with gradient descent
- This video: more details on the training process
  - Walk through pseudocode

Algorithm Structure

initialize matrices

for f in features:

    until feature has converged:

        for (u,i,r) in ratings:

            predict r

            update user, item values for f

Prediction/Scoring

- Dot product of user, item vectors
  - All items: multiply user vector by item matrix

7-4: FunkSVD Training Algorithm