

CSSE 386 – Data Mining with Programming
Rose-Hulman Institute of Technology

Worksheet 15

Name (Print): _____ Section: _____

1. The model recommends a shopping app to a user because they recently installed a similar app. What kind of filtering is this an example of?
 - (a) Content-based Filtering
 - (b) Collaborative Filtering

2. Complete terms:

Term	Description
	The entities a system recommends
	The information a system uses to make recommendations

3. Embedding is a mapping from a _____ (set of items to recommend) to a _____ called the embedding space
4. Matrix Vectorization decomposes the user-item interaction matrix into lower-dimensional matrices: one representing user features (_____) and another representing item features (_____)
5. What are the three common components of recommendation systems:
 - (a)
 - (b)
 - (c)
6. Identify implicit/explicit feedback:
 - 1) - users specify how much they liked a particular movie by providing a numerical rating
 - 2) if a user watches a movie, the system infers that the user is interested