3. K-Nearest Neighbor Method

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Our goal in the movie recommender system problem is to predict the movie ranking tha
movie that (s)he has not seen.

Let m be the number of movies and n the number of users. The ranking Y_{ai} of a movie
user $a \in \{1, \ldots, n\}$ may already exist or not. Our goal is to predict Y_{ai} in the case wh

Nearest Neighbour

The K-Nearest Neighbor method makes use of ratings by K other "similar" users whe

Let $\mathbf{KNN}(a)$ be the set of K users "similar to" user a, and let $\mathbf{sim}(a, b)$ be a **similari**
users a and $b \in \mathbf{KNN}(a)$. The K-Nearest Neighbor method predicts a ranking Y_{ai} to

$$\widehat{Y}_{ai} = \frac{\sum_{b \in \mathbf{KNN}(a)} \mathbf{sim}(a, b)\, Y_{bi}}$$

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