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Machine Learning with Python-From Linear Models to Deep Learning

Discussion Course **Progress Resources** Dates

A Course / Unit 2. Nonlinear Classification, Linear regression, ... / Lecture 7. Red



3. K-Nearest Neighbor Method

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K-Nearest Neighbor Method



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Our goal in the movie recommender system problem is to predict the movie ranking the 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 w



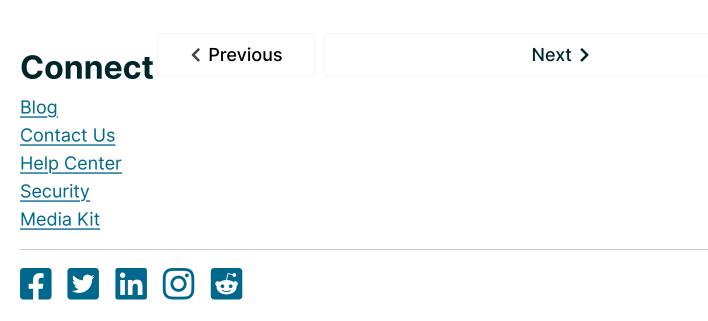
The $m{K}$ -Nearest Neighbor method makes use of ratings by $m{K}$ other "similar" users whe

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

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$$\sum_{b \in ext{KNN}(a)} \sin\left(a,b
ight) Y_{bi}$$







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