4 Discovering interpretable features

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In this chapter, you'll learn about a dimension reduction technique called "Non-negative matrix factorization" ("NMF") that expresses samples as combinations of interpretable parts. For example, it expresses documents as combinations of topics, and images in terms of commonly occurring visual patterns. You'll also learn to use NMF to build recommender systems that can find you similar articles to read, or musical artists that match your listening history!

Non-negative matrix factorization (NMF)	50 xp
Non-negative data	50 xp
NMF applied to Wikipedia articles	100 xp
NMF features of the Wikipedia articles	100 xp
NMF reconstructs samples	50 xp
NMF learns interpretable parts	50 xp
NMF learns topics of documents	100 xp
Explore the LED digits dataset	100 xp
NMF learns the parts of images	100 xp
PCA doesn't learn parts	100 xp
Building recommender systems using NMF	50 xp
Which articles are similar to 'Cristiano Ronaldo'?	100 xp
Recommend musical artists part I	100 xp
Recommend musical artists part II	100 xp
Final thoughts	50 xp

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