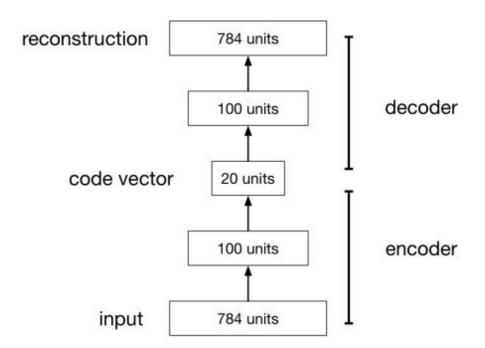
Machine Learning

Lecture 5

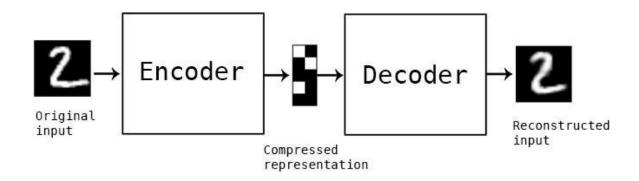
Autoencoders

- An autoencoder is a feed-forward neural net whose job it is to take an input x and predict x.
- To make this non-trivial, we need to add a bottleneck layer whose dimension is much smaller than the input.



Why Autoencoders?

- Map high-dimensional data to *n* dimensions for visualization.
- Data Compression (i.e. reducing the file size).
- Learn abstract features in an unsupervised way so you can apply them to a supervised task



Deep Autoencoders

