Autoencoders/”Diabolo networks”
Goal

- Want to obtain good features of the training set
- Good features should allow us to be able to generate the training set
• Find the weights that produce as small a difference as possible between the input and the reconstruction
• Train using Backprop
• The code layer is a summary of the input
  • Somewhat similar to the h in an RBM
Uses

• Can use to compress data
• Can use the encoder as a feature extractor
  • E.g., train autoencoder on unlabelled data, and then use it to extract features from labelled data to train classifiers