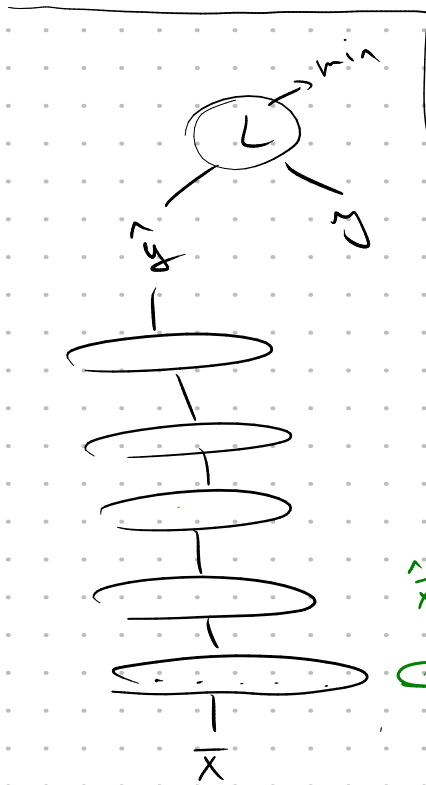


lin. regr. : $h = id$
 log. regr. : $h = \sigma$

$h(\bar{\theta}^T \bar{x}) = 0$
 $\bar{\theta}^T \bar{x} = \dots$

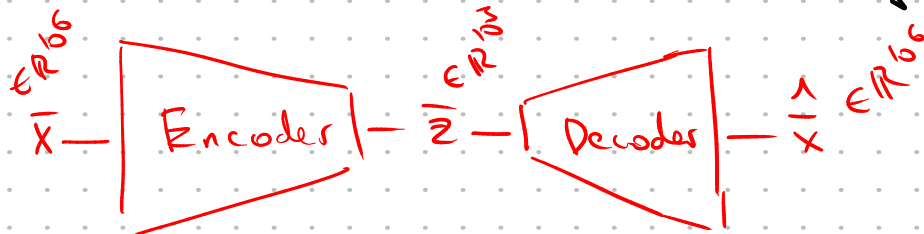


$\bar{\theta}^{(k+1)} := \bar{\theta}^{(k)} - \eta \cdot \nabla_{\bar{\theta}} L |_{\bar{\theta}^{(k)}}$
 $\nabla_{\bar{\theta}} L |_{\bar{\theta}^{(k)}} \approx h'(\bar{\theta}^{(k)}) \cdot \bar{x}$

Unsupervised pretraining



RBM - Restricted Boltzmann machine



Autoencoder