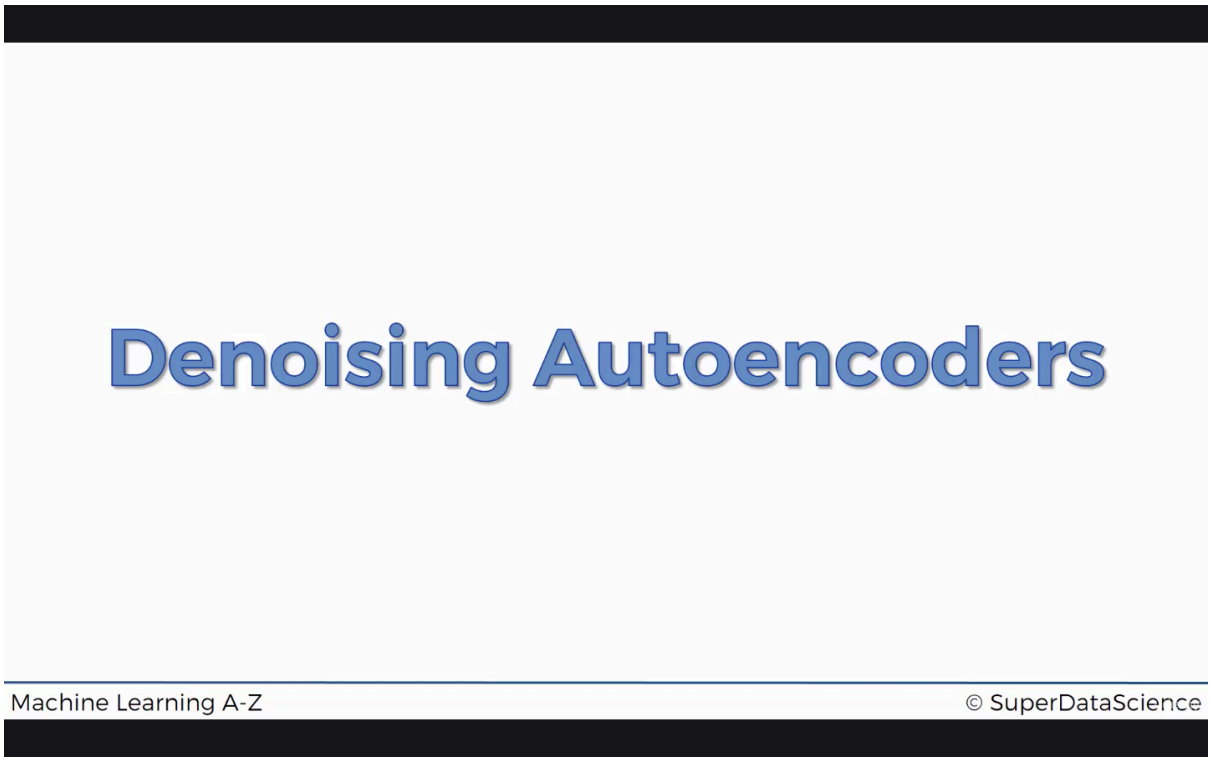
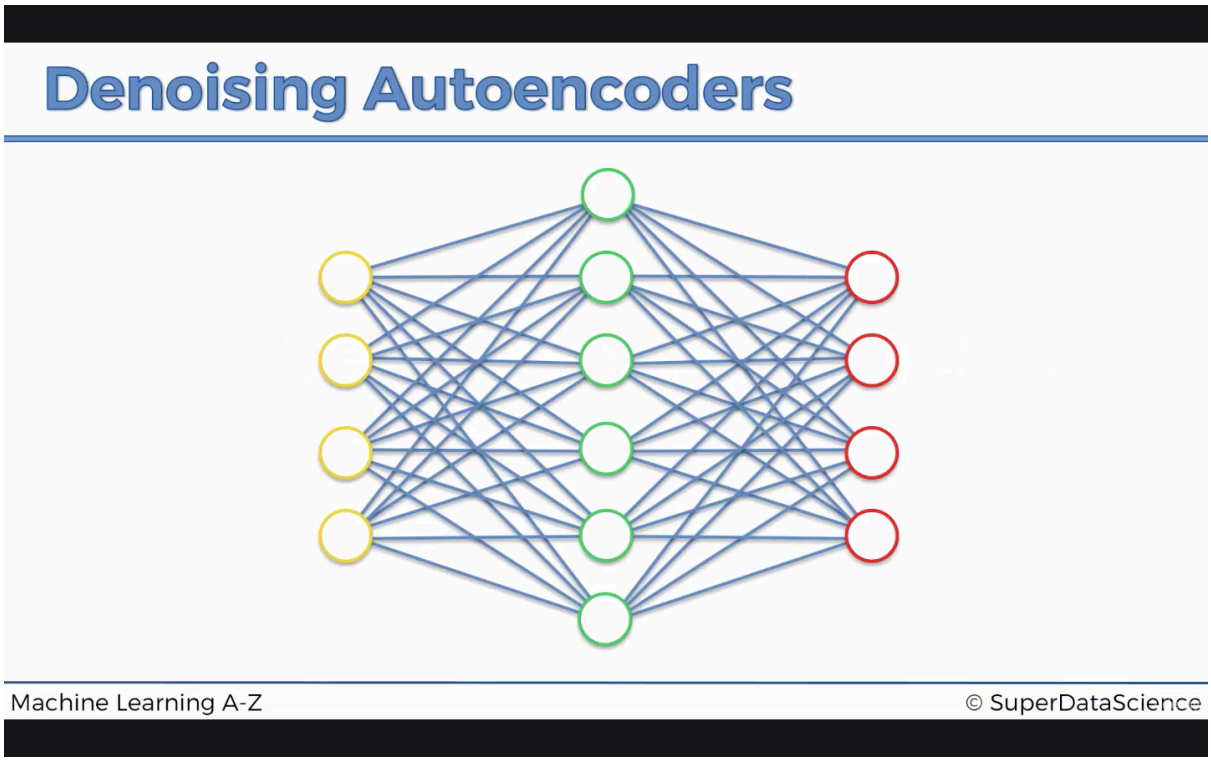
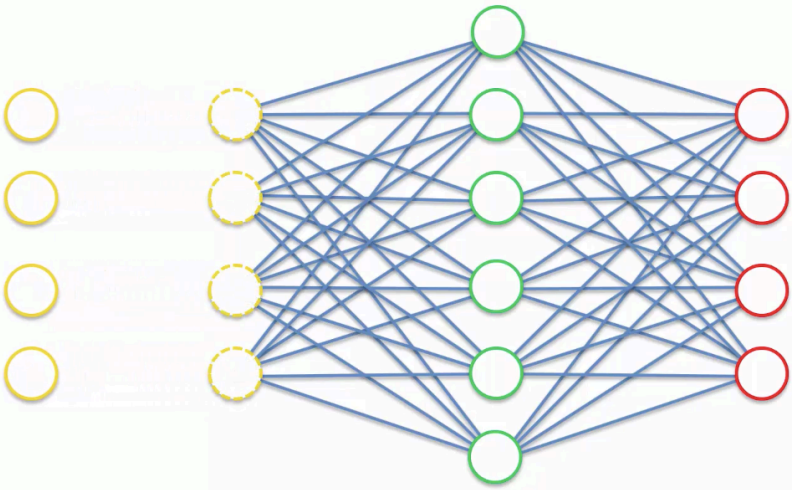
Denoising autoencoders





This is another regularization technique for solving the solution of having more hidden nodes in out neural network.

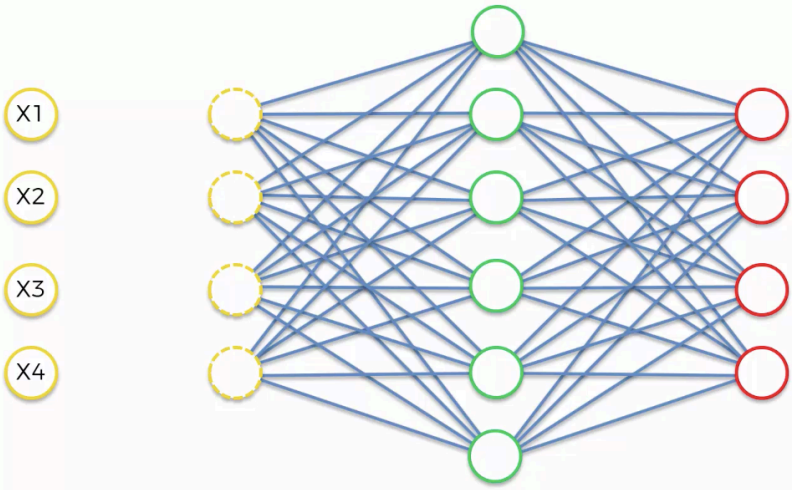
Denoising Autoencoders



Machine Learning A-Z © SuperDataScience

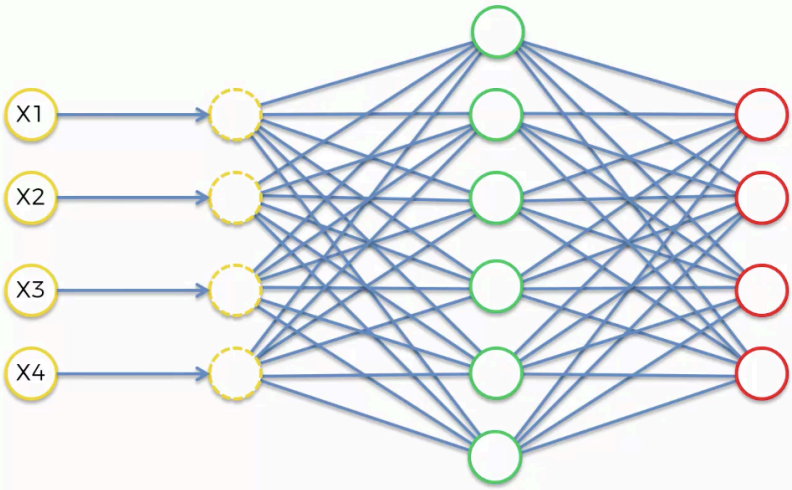
taking the inputs and moving them to the left.

Denoising Autoencoders

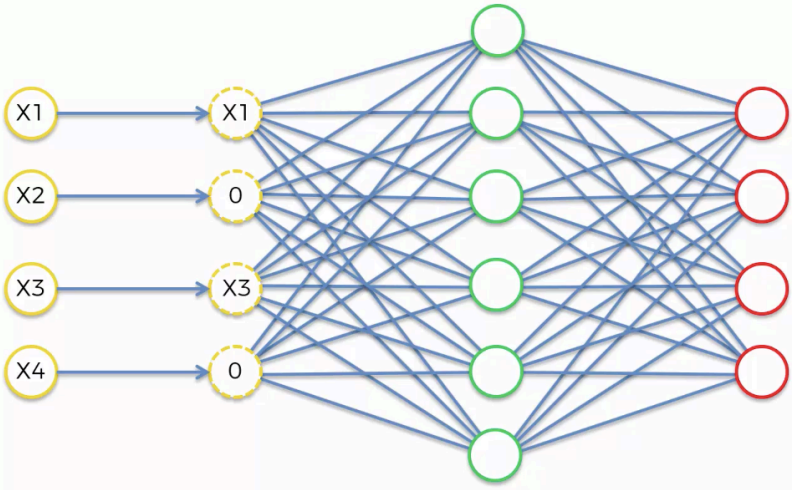


Machine Learning A-Z © SuperDataScience

Denoising Autoencoders

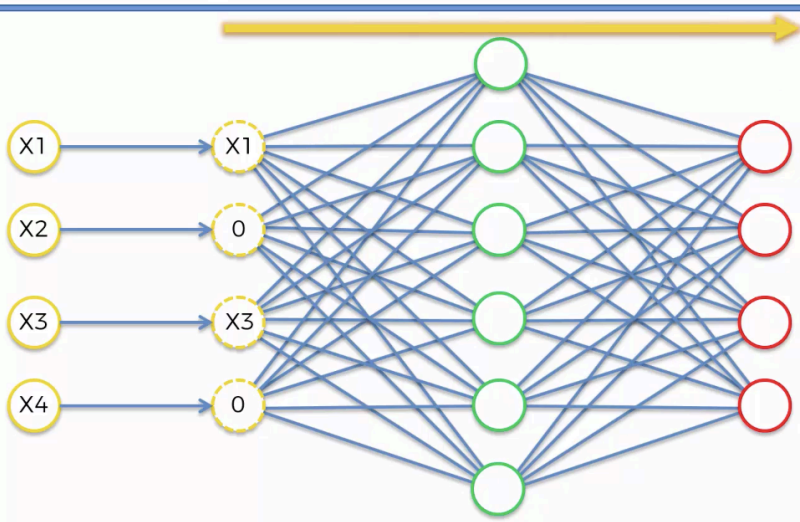


Denoising Autoencoders

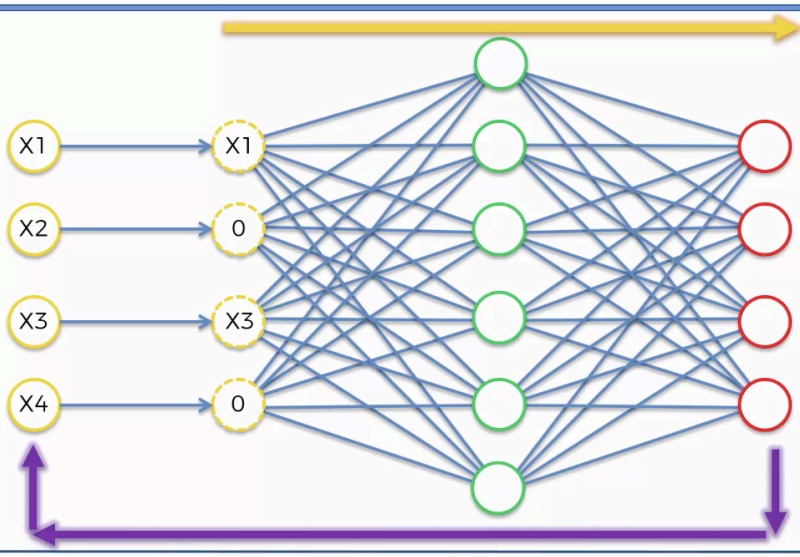


Out of these inputs, randomly some of them are going to turn to zeros.

Denoising Autoencoders



Denoising Autoencoders



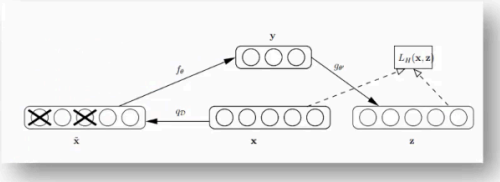
In here we compare the output values with our original values.

Denoising Autoencoders

Additional Reading:

Extracting and Composing Robust Features with Denoising Autoencoders

By Pascal Vincent et al. (2008)



Link:

http://www.cs.toronto.edu/~larocheh/publications/icml-2008-denoising-autoencoders.pdf