

Variational Autoencoder : A Deep Generative Model

Ayush Raina, Anushka Dassi, Arnav Bhatt

Prof. Chiranjib Bhattacharyya

Abstract—Autoencoders are deep generative models. They are widely used for tasks such as image generation, data compression, denoising and capturing the most important features of the data. Autoencoders contains encoder and decoder networks. Variational Autoencoders introduce probabilistic modelling into encoding process in which we learn the latent distribution, which enables generation of images which are similar to training data.