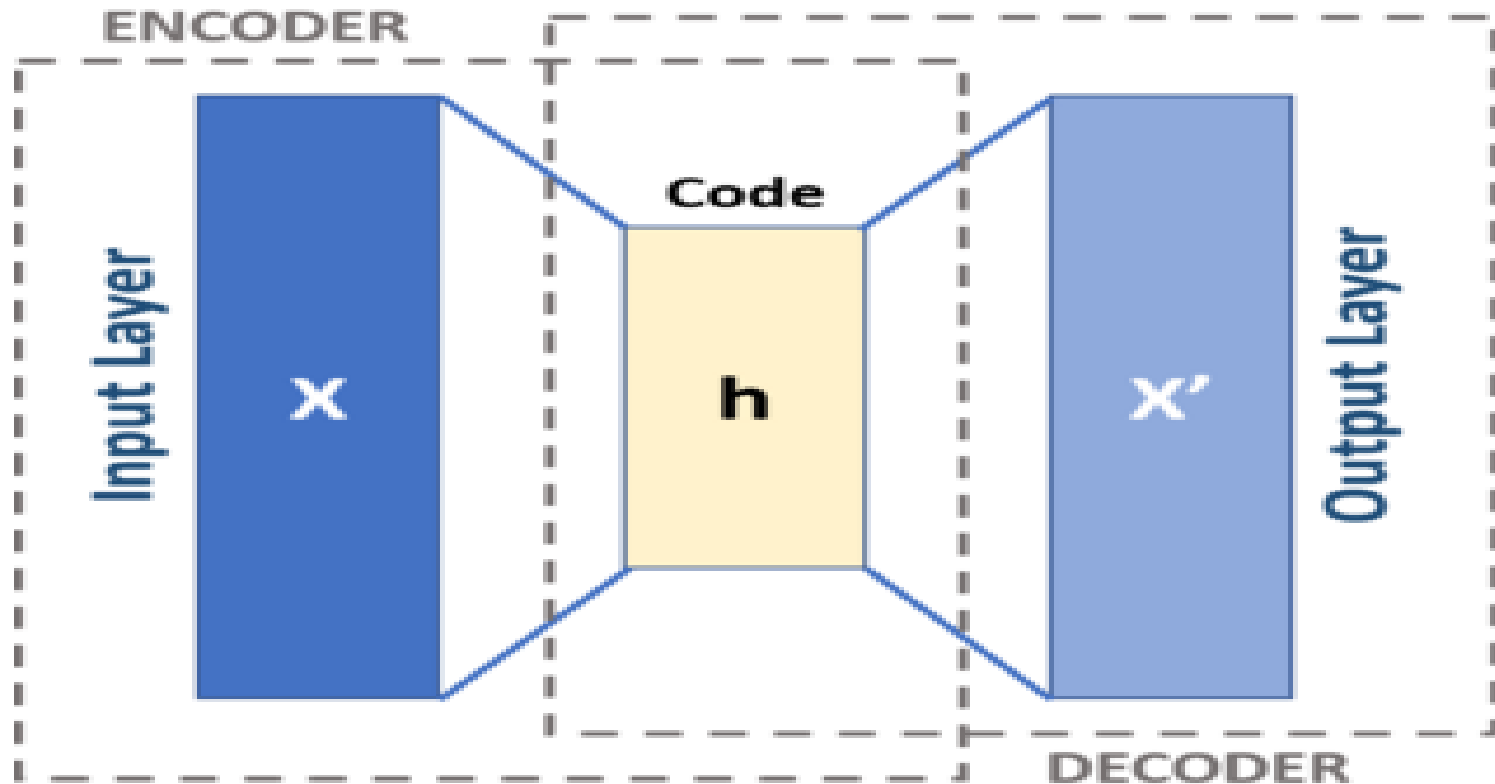
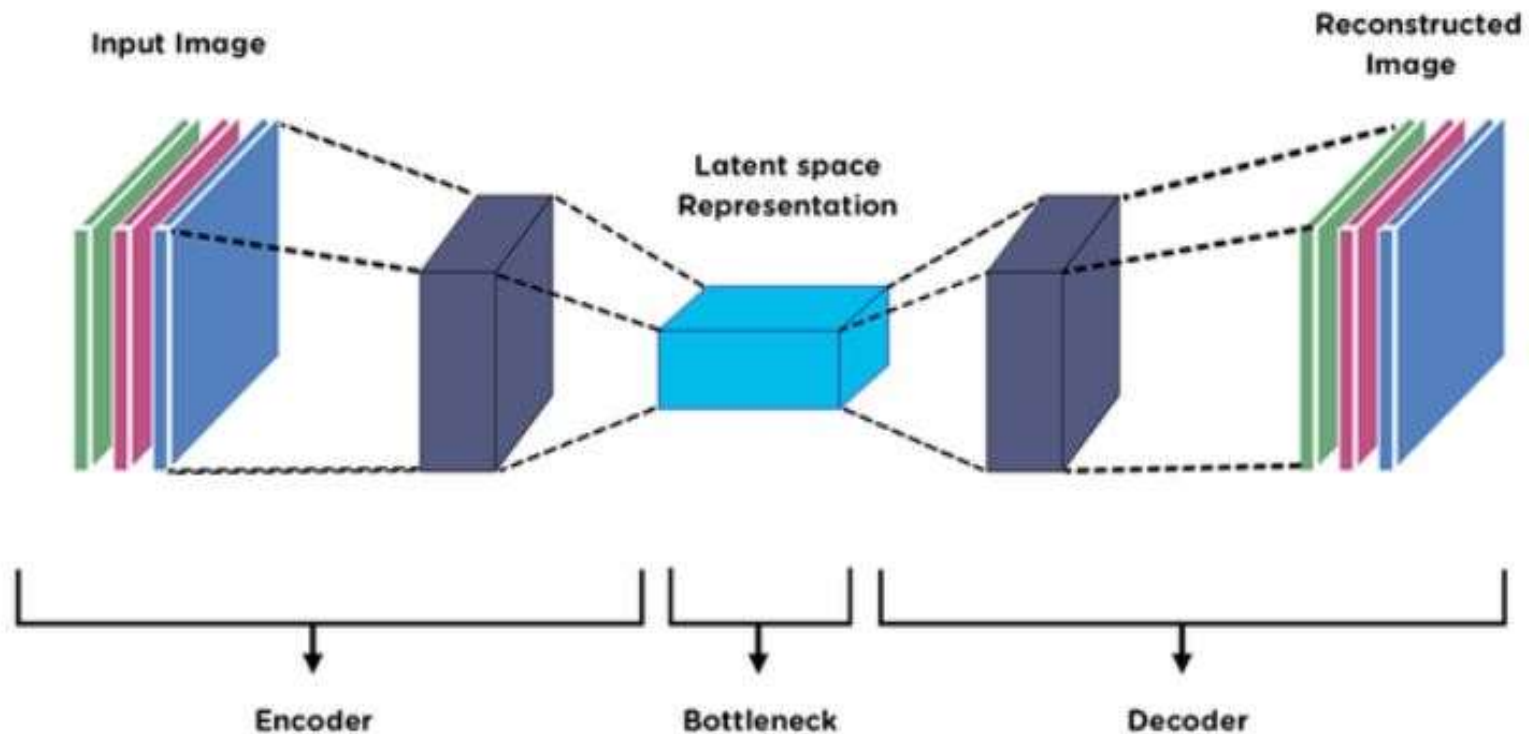


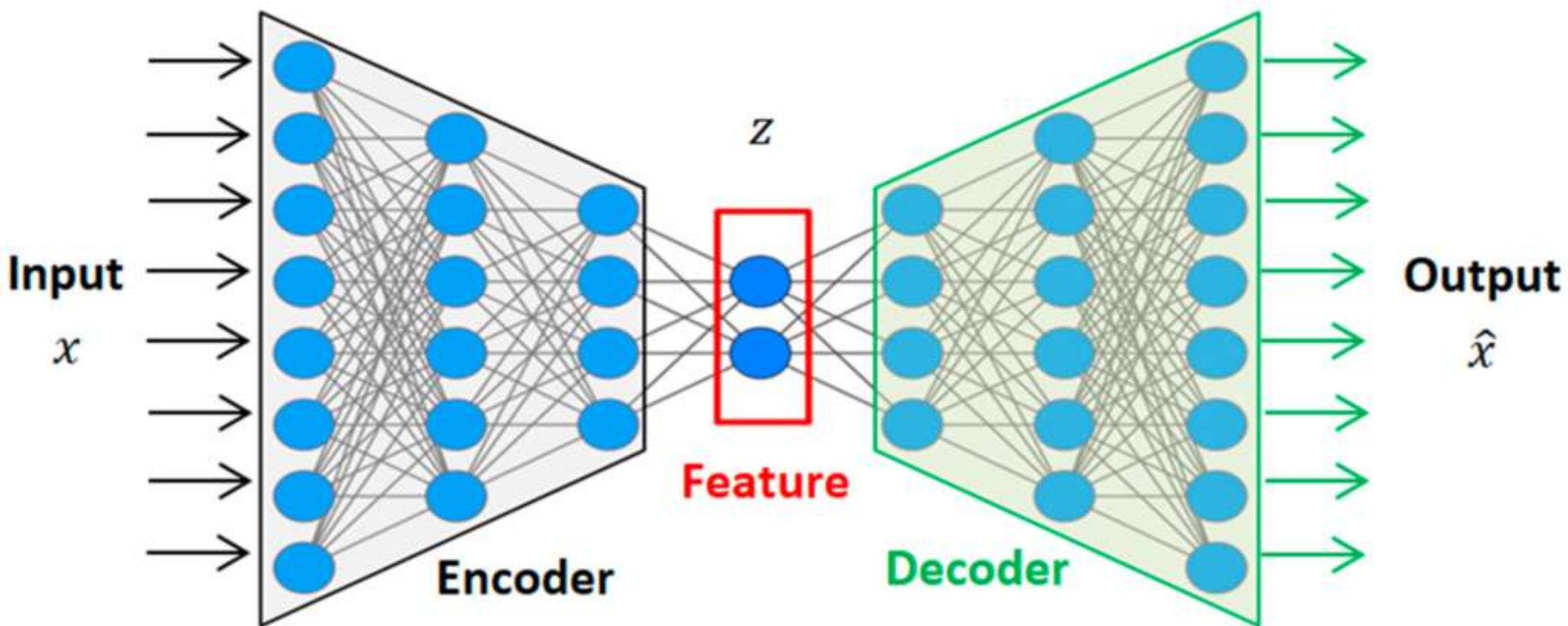
What is an Autoencoder?



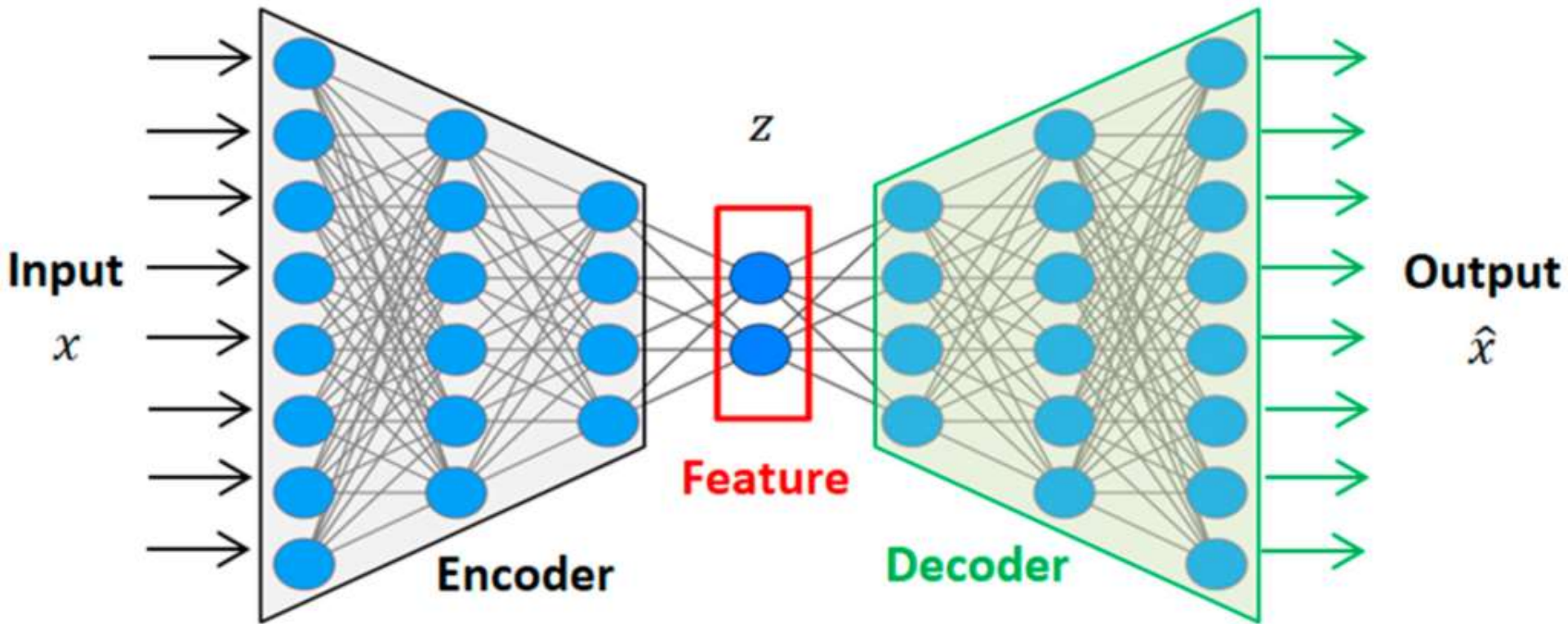
Autoencoder Architecture



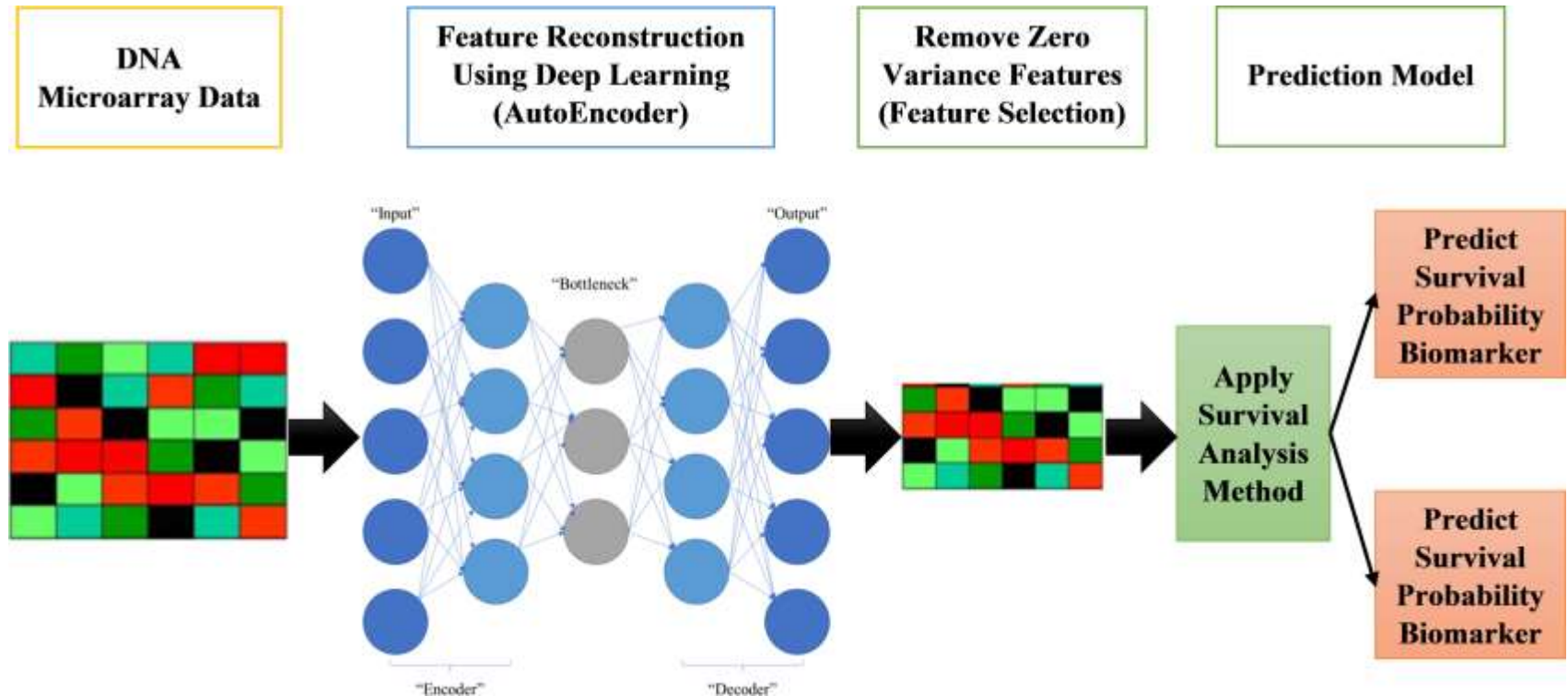
Encoder



Decoder



Applications & training objective

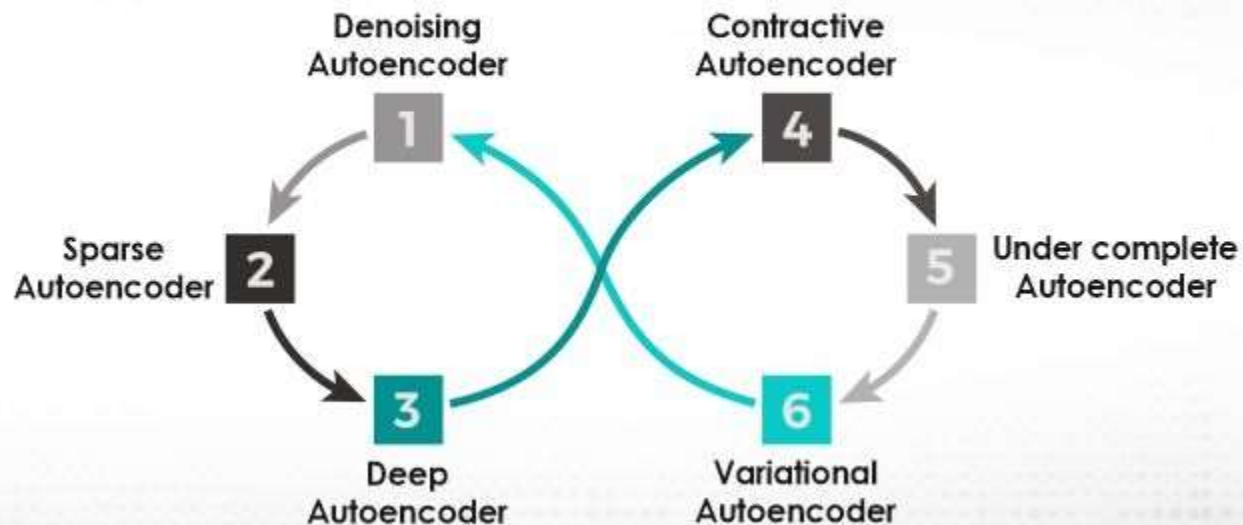


Types of Autoencoders

6 Types Of Autoencoders

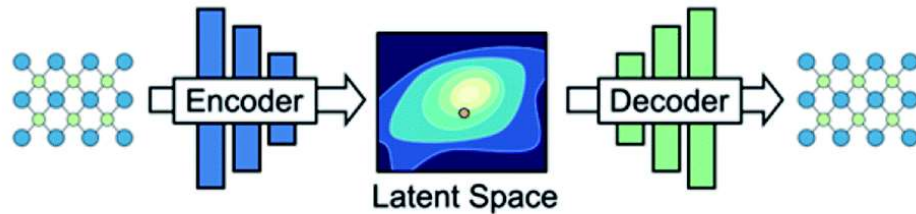


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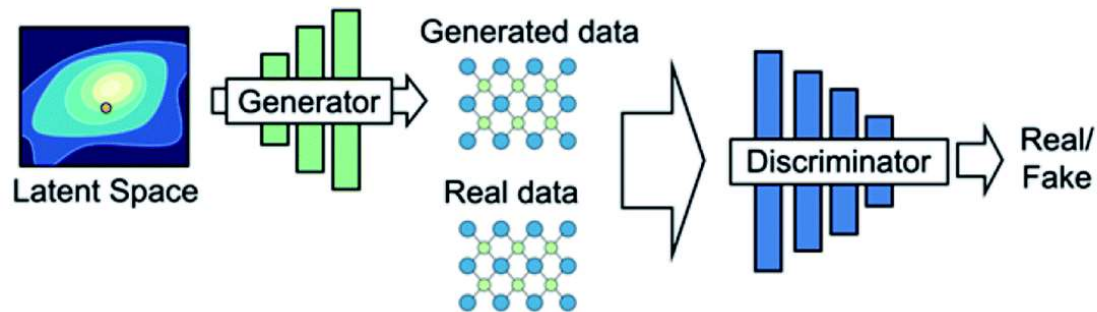


Variational Autoencoder (VAE)

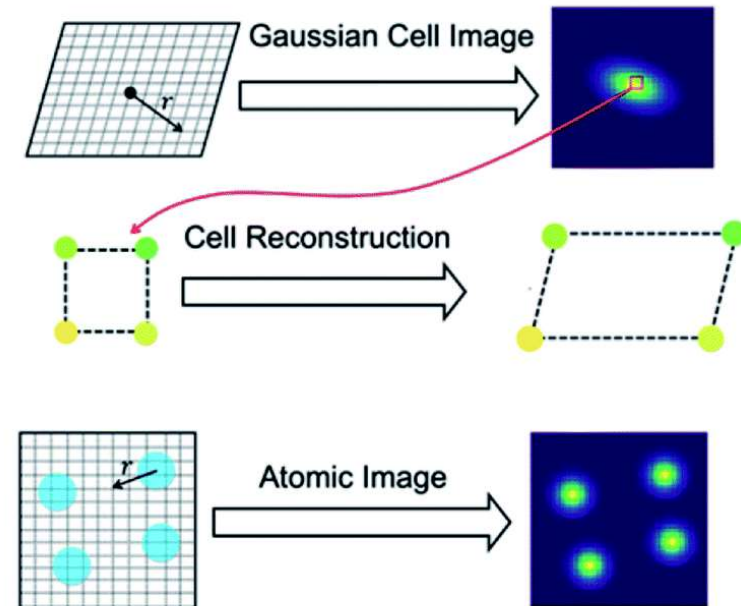
(a) Variational Autoencoder (VAE)



(b) Generative Adversarial Network (GAN)

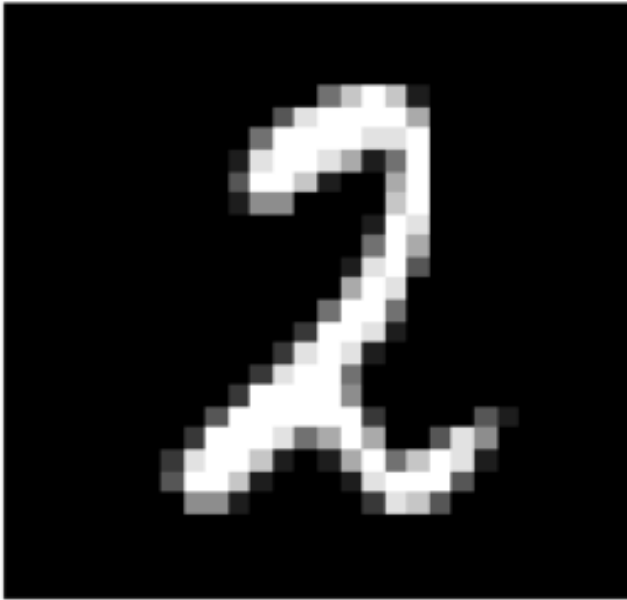


(c) 3D image representation of materials



MNIST Reconstruction Example

Original Digit



Reconstructed Digit

