

Goal of generative modeling

Gen AI
Principles

↳ Estimate P_X & learn to sample from it.

i) Assume a parametric family on P_X , denoted by P_θ

P_θ : represented using deep Neural Networks (Model)

ii) define & estimate a divergence (distance) metric between P_θ and P_X .

iii) solve an optimization problem over the parameters of P_θ , to minimize the above divergence metric.