**Generative Adversarial Nets**

2014 Ian J. Goodfellow

**Abstract**

They proposed new framework ,in which they trained two model Generative model(G) and Discriminative model(D), G captures data distribution and D estimates probability that sample came from training data rather than G.If G and D are defined multilayer perceptron’s,then it can be trained in backpropagation. No need for any Markov chains or unrolled approximate inference networks during training.

**Introductions**

Deep generative model had less impact due ti difficulty in approximating intractable probabilistic computation. For this they proposed new generative model that sidestep these difficulties.in this framework, generative model is marked against adversary and discriminative model learns to determine whether a sample is from model distribution or data distribution.

**Survey**

Conditional generative model p(x|c) can be obtained by adding c as input to G and D both.

It demonstrated the feasibility of adversarial modelling framework.