Denerative models

Use unsupervised learning approach

In generative model

There are samples I doto i.e. X ? closeun't have

Input output

Variable variable

(AN: (Generative Advertise) model)

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In 1607, 125

2014 - 1et paper DC - GAN prep Convolvitional General advertisal network

Deep Learning Dand generative Model word for Undepervised learning In 1617, its a system where two competing networks compete with each other to create or generale variations in the data

GAN Architecture was 2 woodels

- 1) Generator Generator network that take a sample and
- 1) Discriminator Generales a sample of data

Discriminator network decides whether the data is generated or taken from the real sample using binary dawstication problem when the help of signoid function that gives output in range 0 to 1.

We use neutral networks as Gotifresial intelligente

$$V(P,G) = E_{x} \sim P data(x) \left[log D(x) \right] + E_{z} \sim P E(E)$$

$$\left[log (1-D(G(z)) \right]$$

(= Generator x = Sample from real data

D: Discriminator Z = Sample from generator

Pdana(a) = Distributor of real data

P(x) = Discriminator method

P(data(E) = Distributor of generalis

P(x) = Discriminator method

P(data(E) = Distributor of generalis

GAN Application

Prediction of next frame in a video. (Surrellance video)

Text to image Generation (from captum it would geneate image)

That the resolution (Super revolution)

The CSATL (SAP)

The Working on Minor desara

Therefore image generation

Challenges

> Problem of stability between generator of observations

> Problem to determine positioning of the object

> Problem in understanding perspective 2D = 3D

> Problem in understanding Global objects there

New GANS are served there challenger