Deep Generative Models

Lecture 14

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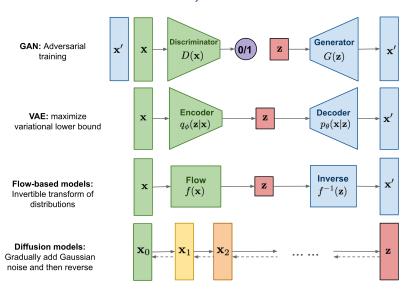
Outline

1. The worst course overview

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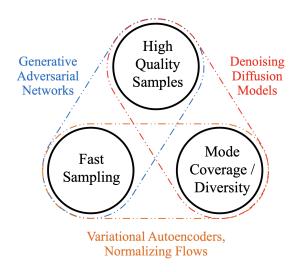
1. The worst course overview

The worst course overview:)



Weng L. What are Diffusion Models?, blog post, 2021

The worst course overview:)



Xiao Z., Kreis K., Vahdat A. Tackling the generative learning trilemma with denoising diffusion GANs, 2021

The worst course overview:)

Model	Efficient	Sample quality	Coverage	Well-behaved latent space	Disentangled latent space	Efficient likelihood
GANs	✓	✓	Х	✓	?	n/a
VAEs	✓	×	?	✓	?	Х
Flows	✓	X	?	✓	?	✓
Diffusion	Х	✓	?	Х	Х	Х

Summary

