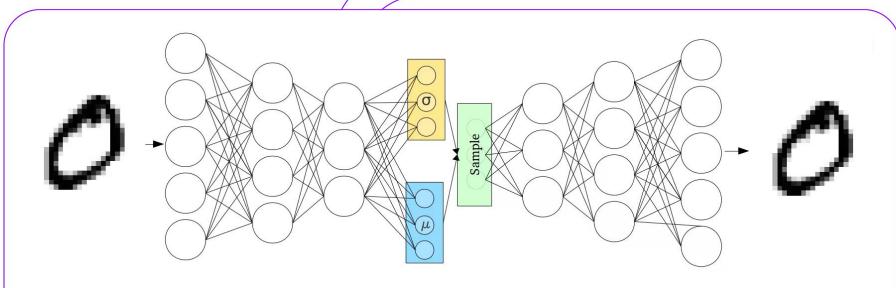
VITMO

Современные архитектуры нейронных сетей

VAE, VQ-VAE

Вариационный автокодировщик

VİTMO



$$f(x) = (\mu, \log \sigma)$$

$$f(x) = (\mu, \log \sigma) \qquad \quad z \sim \mathbb{N}(\mu, \log \sigma) \qquad \quad g(z) = \hat{x}$$

$$g(z) = \hat{x}$$

Немного р(х)

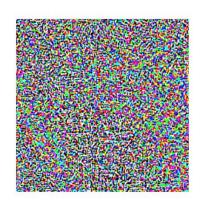
VITMO







x
"panda"
57.7% confidence



 $+.007 \times$

 $sign(\nabla_{\boldsymbol{x}}J(\boldsymbol{\theta},\boldsymbol{x},y))$ "nematode"
8.2% confidence

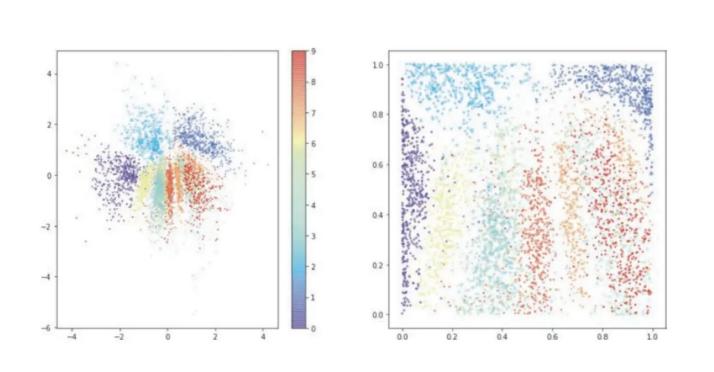


 $x + \epsilon sign(\nabla_x J(\theta, x, y))$ "gibbon"

99.3 % confidence

AE vs VAE

VİTMO







Архитектура VQ-VAE

VITMO

