Kahoot!

DL Lecture Quiz 12 (2021)

1 play · 32 players

A private kahoot

Questions (7)

1 - Quiz

Auto-encoders generally learn a function mapping

20 sec

- X → X ✓
- {0,1} → {0,1} ✗
- X → {0,1} ✗
- X → Y (with |Y| > |X|) ✗

2 - Quiz

Which of the following is/are generally true for overcomplete auto-encoders?

30 sec

- They learn codes |h| >= |x| ✓
- They always require some sort of regularization ✓
- They learn compression ✗
- They never overfit ✗

3 - Quiz

Which of the following is/are true about VAEs?

30 sec

- The encoder outputs the posterior distribution over the latent variables ✓
- They learn to reconstruct a corrupted version of the input ✗
- They are auto-encoders ✓
- They add an L1 penalty on the latent code to the loss function ✗

4 - Quiz

What does the reparameterization trick do?

20 sec

- Express the latent variable **z** as a sum of deterministic and noise variables ✓
- Make it possible to train encoder and decoder jointly using standard SGD ✓
- Express the input variable **x** as a sum of deterministic and noise variables ✗
- Reinitializes all parameters of the network ✗

5 - Quiz

Which of the following are generative models?

30 sec

- discriminator network in GANs ✗
- decoder network in VAEs ✓
- generator network in GANs ✓
- encoder network in VAEs ✗

6 - True or false

GANs are a kind of auto-encoder

10 sec

- True ✗
- False ✓

7 - Quiz

When training GANs, the following term in the original min-max objective (hint: discriminator outputs ~ likelihood real)

60 sec

- is minimized by the discriminator and maximized by the generator. ✗
- is maximized by both discriminator and generator ✗
- is maximized by the discriminator and minimized by the generator. ✓
- is minimized by both discriminator and generator ✗