←

🔧 Dashboard / Primer 2.0 - App Dev / Stage 1 / Gen AI / Generative Adversarial Networks

Quiz review

Started on	Wednesday, 13 March 2024, 4:43 PM
State	Finished
Completed on	Wednesday, 13 March 2024, 4:45 PM
Time taken	2 mins 19 secs
Marks	10.00/10.00
Grade	**100.00** out of 100.00

Question 1
Correct

Mark 1.00 out of 1.00

Which component of a GAN is responsible for generating new data samples?

- ○ Optimizer
- ⦿ Generator ✔
- ○ Decoder
- ○ Discriminator
- ○ Encoder

The correct answer is: Generator

Question 2
Correct

Mark 1.00 out of 1.00

What is a challenge faced during GAN training due to the minimax game concept?

- ○ Quick convergence to a suboptimal solution
- ○ Overfitting to the training data
- ○ Generator producing only a single mode
- ⦿ Oscillations and non-convergence ✔
- ○ Discriminator becoming too weak

The correct answer is: Oscillations and non-convergence

Question 3
Correct

Mark 1.00 out of 1.00

Which of the following is a real-world application where GANs have shown significant promise?

- ○ Speech recognition
- ○ Text summarization
- ○ Time series forecasting
- ⦿ Image-to-image translation ✔
- ○ Image classification

The correct answer is: Image-to-image translation

Question 4
Correct

Mark 1.00 out of 1.00

What does GAN stand for?

- ○ Generalized Artificial Network
- ○ Generative Analytical Network
- ○ None of the given options
- ⦿ Generative Adversarial Network ✔
- ○ Gradient Augmented Network

The correct answer is: Generative Adversarial Network

Question 5
Correct

Mark 1.00 out of 1.00

The training process of GANs is often likened to which game?

- ○ Poker
- ○ None of the given options
- ○ Chess
- ⦿ Minimax ✔
- ○ Sudoku

The correct answer is: Minimax

Question 6

Correct

Mark 1.00 out of 1.00

Which type of GAN allows for generating data based on specific categories?

○   Mode Collapse GAN

○   Minimax GAN

○   None of the given options

○   Progressive GAN

◉   Conditional GAN✔

The correct answer is: Conditional GAN

Question 7

Correct

Mark 1.00 out of 1.00

What is mode collapse in the context of GANs?

○   When the model underfits

◉   When the generator produces limited varieties of outputs✔

○   When the model converges too quickly

○   When the discriminator becomes too powerful

○   When the model overfits

The correct answer is: When the generator produces limited varieties of outputs

Question 8

Correct

Mark 1.00 out of 1.00

In GANs, which component is responsible for evaluating the authenticity of data?

○   Encoder

○   Decoder

○   Generator

○   None of the given options

◉   Discriminator✔

The correct answer is: Discriminator

Question 9

Correct

Mark 1.00 out of 1.00

In the GAN architecture, what is the primary goal of the Discriminator?

○ Generate realistic data samples

◉ Distinguish between real and generated samples ✔

○ Minimize the loss function

○ Ensure mode diversity

○ Replicate the generator's output

The correct answer is: Distinguish between real and generated samples

Question 10

Correct

Mark 1.00 out of 1.00

Progressive GANs are designed to address which challenge in traditional GANs?

○ Slow training speeds

○ Inability to generate colored images

◉ Training stability and generating high-resolution images ✔

○ Discriminator overpowering the generator

○ Mode collapse

The correct answer is: Training stability and generating high-resolution images

◀ **CASE STUDY - VAE Application - Quiz**

Jump to...

Generative Adversarial Networks ▶