

Dashboard / Primer 2.0 - App Dev / Stage 1 / Gen Al / Introduction to Generative Models

Quiz review

Started on Wednesday, 13 March 2024, 4:28 PM

State Finished

Completed on Wednesday, 13 March 2024, 4:31 PM

 Time taken
 2 mins 21 secs

 Marks
 10.00/10.00

Grade 100.00 out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

Which model type aims to capture the joint probability P(x, y)?

- Discriminative Model 4/562
- Both Generative Model and Discriminative Model
- Generative Model ✓
- Probability Distribution
- regression model

The correct answer is: Generative Model

Question 2

Correct

Mark 1.00 out of 1.00

For what tasks can generative models be applied?

- Classification only
- Data generation, denoising, inpainting, and more
- Data labeling only
- Only data generation
- Only denoising

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The correct answer is: Data generation, denoising, inpainting, and more



Question	3
Question	J

Correct

Mark 1.00 out of 1.00

What does a probability distribution provide?

- A training method for models
- A mathematical description of outcomes for a random variable

 ✓
- A method for generating new data
- A measure of model error
- A decision boundary for classification

The correct answer is: A mathematical description of outcomes for a random variable

Question 4

Correct

Mark 1.00 out of 1.00

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Within generative models, what function does the discriminator serve in GANs?

- To distinguish between real and generated data ✓
- To optimize the generator
- To capture the joint probability
- To generate new data
- To calculate the likelihood

The correct answer is: To distinguish between real and generated data

Question 5

Correct

Mark 1.00 out of 1.00

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What's a significant hurdle when training GANs?

- Slow convergence rate
- Inability to generate high-resolution images
- The discriminator becoming too weak
- Overfitting to the training data
- Mode collapse

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The correct answer is: Mode collapse

27/03/2024, 20:20	Introduction to Generative Models - Post Quiz: Attempt review
Question 6	
Correct	
Mark 1.00 out of 1.00	
How is the likelihood of data given a model symbolized	?
O P(model data)	
P(model)	
P(data model) ✓	
P(data)	
O P(data & model)	
The correct answer is: P(data model)	
Question 7	
Correct	
Mark 1.00 out of 1.00 47562	
17002	
Within the architecture of Generative Adversarial Netwo	orks (GANs), which duo of fundamental elements are paramount?
Classifier and Regressor	
Activator and Deactivator	
 Forward and Backward Propagators 	
Encoder and Decoder	
Generator and Discriminator ✓	

The correct answer is: Generator and Discriminator

Question 8

Correct

Mark 1.00 out of 1.00

Which of the following best describes the difference between generative and discriminative models?

- Generative models are older in concept
- Generative models are always better
- Oiscriminative models can't generate data

Generative models are used for classification only 7562

Generative models learn the data distribution, while discriminative models learn the decision boundary ✓

The correct answer is: Generative models learn the data distribution, while discriminative models learn the decision boundary

Question	9
Quece.co	-

Correct

Mark 1.00 out of 1.00

Which of the following is NOT a property of likelihood?

- It is always a probability between 0 and 1
- It is not normalized like a probability

 ✓
- It can be used to compare different models
- It is a function of model parameters
- It measures how well a model explains data

The correct answer is: It is not normalized like a probability

Question 10

Correct

Mark 1.00 out of 1.00

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Which claim regarding generative models isn't true?

- They capture the data distribution
- They can be used in unsupervised learning scenarios
- They always require labeled data for training
- They can be combined with discriminative models for certain tasks
- They can generate new data samples

The correct answer is: They always require labeled data for training

◀ Introduction to Generative Models

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