



Reparameterization trick is used to...



- ☒ Deal with the non-differentiability of sampling in VAEs✓
- ☐ Speed up training
- ☐ Reduce model size
- ☐ Improve model accuracy
- ☐ None of the given options

The correct answer is: Deal with the non-differentiability of sampling in VAEs

Question 5

1.00/1.00

Which application does NOT typically use VAEs?

- ☐ Anomaly detection in industrial equipment
- ☒ Text summarization✓
- ☐ Face generation for video games
- ☐ Medical imaging enhancement
- ☐ Fashion design

The correct answer is: Text summarization

Question 6

1.00/1.00

Why is the reparameterization trick crucial in training VAEs?

- ☒ It allows backpropagation through stochastic nodes✓
- ☐ It reduces the need for labeled data
- ☐ It increases the model's accuracy
- ☐ It reduces the model's complexity
- ☐ It speeds up the training process

The correct answer is: It allows backpropagation through stochastic nodes

Question 7

1.00/1.00

What does VAE stand for?

- ☐ Virtual Autoencoder
- ☐ Variable Autoencoder
- ☐ None of the given options
- ☐ Vectorized Autoencoder
- ☒ Variational Autoencoder✓

The correct answer is: Variational Autoencoder



Question 8

1.00/1.00

Which of the following is NOT a type of autoencoder?

- ☐ Variational autoencoder
- ☒ Supervised autoencoder✓
- ☐ Contractive autoencoder
- ☐ Denoising autoencoder
- ☐ Sparse autoencoder

The correct answer is: Supervised autoencoder

Question 9

1.00/1.00

In which application might you use a VAE for generating new, coherent samples?

- ☐ Speech recognition
- ☐ Image classification
- ☐ Time series forecasting
- ☐ Text translation
- ☒ Designing virtual fashion items✓

The correct answer is: Designing virtual fashion items

Question 10

1.00/1.00

Why are autoencoders considered generative models?

- ☐ They are a type of neural network
- ☒ They can reconstruct and generate data similar to the input✓
- ☐ They are used for supervised learning
- ☐ They are only used for image data
- ☐ They always reduce data dimensionality

The correct answer is: They can reconstruct and generate data similar to the input