

Dashboard / Primer 2.0 - App Dev / Stage 1 / Gen Al / Sequence Generation with RNNs

Quiz review

Started on Wednesday, 13 March 2024, 4:53 PM

State Finished

Completed on Wednesday, 13 March 2024, 4:55 PM

 Time taken
 2 mins 49 secs

 Marks
 10.00/10.00

Grade 100.00 out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

When using RNNs for music generation, what does each neuron in the output layer typically represent?

A frequency band

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- A possible note or rest in the musical vocabulary
- A specific instrument
- A time step in the generated sequence
- A note in the C major scale

The correct answer is: A possible note or rest in the musical vocabulary

Question 2

Correct

Mark 1.00 out of 1.00

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In the context of natural language processing, how are RNNs typically utilized for machine translation?

- For clustering text data
- As discriminators in GANs
- For image classification
- As a replacement for CNNs
- Encoding the input sequence and decoding the output sequence

The correct answer is: Encoding the input sequence and decoding the output sequence



27/03/2024, 20:22	Sequence Generation with RNNs - Pre Quiz: Attempt review
Question 3	
Correct	
Mark 1.00 out of 1.00	
Which of the following is NOT a type of RNN architecture?	
Bidirectional RNN	
○ GRU	
○ LSTM	
○ Simple RNN	
○ CNN	
The correct answer is: CNN	
Question 4 Correct	
Mark 1.00 out of 1.00 47562	
7/002	
What is the key advantage of using LSTMs over basic RNNs	s in sequence generation tasks?
Ability to remember long-term dependencies ✓	
 Less prone to overfitting 	
Lower computational cost	
Faster training speeds	
Simpler architecture	
The correct answer is: Ability to remember long-term dependent	dencies
Question 5	
Correct	
Mark 1.00 out of 1.00	
What does RNN stand for?	
 None of the options given 	
Random Neural Network	

- Regular Neural Network
- Recursive Neural Network
- Recurrent Neural Network✓

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The correct answer is: Recurrent Neural Network

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Question 6	
Correct	
Mark 1.00 out of 1.00	

RNNs are primarily used for which type of data?

- Audio
- None of the options given
- Sequential ✓
- Image
- Tabular

The correct answer is: Sequential

Question 7

Correct

Mark 1.00 out of 1.00

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During the training of RNNs for sequence generation, what is the common technique used to mitigate the vanishing gradient problem?

- Gradient clipping ✓
- Data augmentation
- Dropout
- Batch normalization
- L1 regularization

The correct answer is: Gradient clipping

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Question 8

Correct

Mark 1.00 out of 1.00

In NLP, what does RNNs help to predict?

- Next word

 ✓
- Next song note
- None of the options given
- Next video frame
- Next image

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The correct answer is: Next word

27/03/2024, 20:22	Sequence Generation with RNNs - Pre Quiz: Attempt review
Question 9	
Correct	
Mark 1.00 out of 1.00	
Which RNN architecture ut	ilizes update and reset gates to manage memory?
_ LSTM	
 Echo State Network 	
 Bidirectional RNN 	
 Hopfield Network 	
GRU ✓	
The correct answer is: GRU	J
Question 10	
Correct	
Mark 1.00 out of 1.00	47562
Which problem in RNNs do	pes LSTM help to address?
 All of the options give 	en e
High variance	
Overfitting	
Bias	
■ Vanishing gradient	
The correct answer is: Var	ishing gradient 47562

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