←

Quiz review

Started on	Wednesday, 13 March 2024, 4:57 PM
State	Finished
Completed on	Wednesday, 13 March 2024, 5:00 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 of the following is NOT a typical use case for RNNs?

○ Speech recognition

○ None of the given options

◉ Image classification ✔

○ Text generation

○ Time series prediction

The correct answer is: Image classification

Question 2

Correct

Mark 1.00 out of 1.00

How do RNNs handle variable-length sequences in NLP?

○ By changing the network size

○ They don't

○ By skipping them

◉ Through padding and truncation ✔

○ None of the given options

The correct answer is: Through padding and truncation

Question 3
Correct

Mark 1.00 out of 1.00

In music generation, what might an RNN be trained to predict?

○ Next instrument

○ Next album cover

○ None of the given options

◉ Next note or chord ✔

○ Next song genre

The correct answer is: Next note or chord

Question 4
Correct

Mark 1.00 out of 1.00

Which problem arises when training RNNs on long sequences?

○ Overfitting

○ Underfitting

○ High bias

○ All of the given options

◉ Vanishing or exploding gradients ✔

The correct answer is: Vanishing or exploding gradients

Question 5
Correct

Mark 1.00 out of 1.00

What is the main advantage of LSTM over basic RNN?

○ Faster computation

○ None of the given options

○ More layers

◉ Handling long-term dependencies ✔

○ Lower computational cost

The correct answer is: Handling long-term dependencies

Question 6

Correct

Mark 1.00 out of 1.00

What is the primary difference between LSTM and GRU?

- ◉ LSTM has input, forget, and output gates; GRU has reset and update gates ✔
- ○ LSTM is older, GRU is newer
- ○ LSTM is faster, GRU is slower
- ○ LSTM is for sequences, GRU is for images
- ○ LSTM has 3 gates, GRU has 2

The correct answers are: LSTM has 3 gates, GRU has 2, LSTM has input, forget, and output gates; GRU has reset and update gates

Question 7

Correct

Mark 1.00 out of 1.00

Which RNN architecture uses a reset and update gate?

- ○ None of the given options
- ○ Bidirectional RNN
- ◉ GRU ✔
- ○ Simple RNN
- ○ LSTM

The correct answer is: GRU

Question 8

Correct

Mark 1.00 out of 1.00

Why might one use GRU over LSTM?

- ◉ GRU is simpler and sometimes faster ✔
- ○ None of the given options
- ○ LSTM is outdated
- ○ GRU is always more accurate
- ○ LSTM can't handle sequences

The correct answer is: GRU is simpler and sometimes faster

Question 9

Correct

Mark 1.00 out of 1.00

In sequence generation tasks, what is the primary input to an RNN at each time step?

- ○ Previous output ✔
- ○ Previous error
- ○ Current weight
- ○ None of the given options
- ○ Current input

The correct answer is: Previous output

Question 10

Correct

Mark 1.00 out of 1.00

Which of the following is a common application of RNNs in NLP?

- ○ Image generation
- ○ Object detection
- ○ Face recognition
- ○ Image classification
- ● Text generation ✔

The correct answer is: Text generation

◀ **Sequence Generation with RNNs**

Jump to...

Case Study - Sentiment Analysis with RNNs ▶