

Dashboard / Primer 2.0 - App Dev / Stage 1 / Gen Al / Transformers and Attention Mechanisms

Quiz review

Started on Wednesday, 13 March 2024, 6:52 PM

State Finished

Completed on Wednesday, 13 March 2024, 6:54 PM

 Time taken
 1 min 57 secs

 Marks
 10.00/10.00

Grade 100.00 out of 100.00

Question 1

Correct

Mark 1.00 out of 1.00

The Transformer architecture introduced the concept of self-attention to handle which primary challenge in sequence modeling?

Reducing model size

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- Improving model robustness
- Handling larger input sizes
- Speeding up training
- Capturing dependencies regardless of their distance in the input

The correct answer is: Capturing dependencies regardless of their distance in the input

Question 2

Correct

Mark 1.00 out of 1.00

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Which application showcases the use of Transformers in image tasks?

- Sequence alignment
- Speech recognition
- Text summarization
- Named entity recognition
- Image generation using DALL·E

The correct answer is: Image generation using DALL-E-7562



Question	3
Question	J

Correct

Mark 1.00 out of 1.00

What is the primary advantage of pretraining a Transformer on a large corpus before fine-tuning on a specific task?

- It allows the model to leverage general language understanding
- It makes the model more robust to adversarial attacks
- It speeds up the fine-tuning process
- It makes the model smaller
- It reduces the risk of overfitting

The correct answer is: It allows the model to leverage general language understanding

Question 4

Correct

Mark 1.00 out of 1.00

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In the context of Transformers for language translation, what does the encoder primarily focus on?

- Processing and representing the source language
- Generating the final translation
- Handling attention mechanisms
- Reducing the sequence length
- Decoding the target language

The correct answer is: Processing and representing the source language

Question 5

Correct

Mark 1.00 out of 1.00

What is the primary component of the Transformer architecture that helps it handle sequences?

- LSTM
- Attention Mechanism
- None of the options given
- CNN
- RNN

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The correct answer is: Attention Mechanism

Question	6
Quediton	•

Correct

Mark 1.00 out of 1.00

What does the Multi-head attention mechanism in Transformers help with?

- Speeding up training
- Reducing model size
- None of the options given
- Capturing different types of information from the input
- Improving regularization

The correct answer is: Capturing different types of information from the input

Question 7

Correct

Mark 1.00 out of 1.00

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Why is attention particularly crucial in sequence-to-sequence tasks like translation?

- It ensures the output is of a fixed size
- It reduces the model's size
- It allows the model to focus on relevant parts of the input when producing an output

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- It speeds up the training process
- It makes the model more interpretable

The correct answer is: It allows the model to focus on relevant parts of the input when producing an output

Question 8

Correct

Mark 1.00 out of 1.00

Which of the following is NOT a sequence-to-sequence task?

- Image Classification
- Translation
- None of the options given
- Question Answering
- Summarization

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The correct answer is: Image Classification

Question	9
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Correct

Mark 1.00 out of 1.00

Which Transformer model is specifically designed for language translation?

- GPT
- DALL·E
- T5

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- BERT
- Image GPT

The correct answer is: T5

Question 10

Correct

Mark 1.00 out of 1.00

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What is the first step in training a Transformer model for a specific task?

- Fine-tuning
- Pre-training
- Initialization
- Backpropagation
- None of the options given

The correct answer is: Pre-training

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