



Which Transformer model is specifically designed for language translation?



86%



- ☐ GPT
- ☐ Image GPT
- ☐ BERT
- ☒ T5✓
- ☐ DALL-E

The correct answer is: T5

Question 5

1.00/1.00

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

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

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

Question 6

1.00/1.00

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 speeds up the training process
- ☐ It makes the model more interpretable
- ☒ It allows the model to focus on relevant parts of the input when producing an output✓

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

Question 7

1.00/1.00

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

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

The correct answer is: Image Classification

The correct answer is: Image Classification



Question 8

1.00/1.00

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

- ☐ Handling larger input sizes
- ☐ Improving model robustness
- ☒ Capturing dependencies regardless of their distance in the input ✓
- ☐ Reducing model size
- ☐ Speeding up training

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

Question 9

1.00/1.00

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

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

The correct answer is: Processing and representing the source language

Question 10

1.00/1.00

Which application showcases the use of Transformers in image tasks?

- ☐ Text summarization
- ☐ Speech recognition
- ☒ Image generation using DALL-E ✓
- ☐ Named entity recognition
- ☐ Sequence alignment

The correct answer is: Image generation using DALL-E