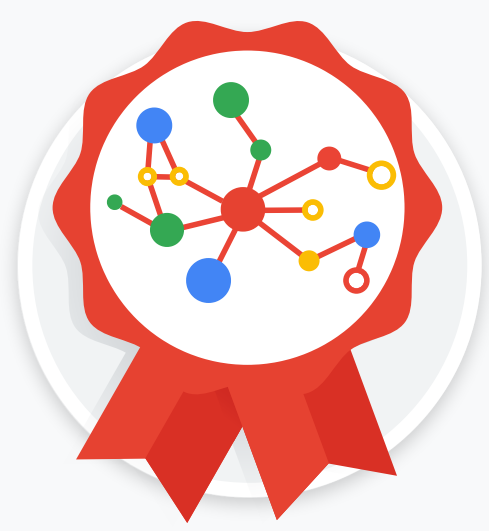


Large Language Models: Test Your Knowledge

Let's do a quick test! You must answer at least 4 questions correctly to pass this quiz.



1. How many 2-grams (bigrams) are present in the following phrase:

they visited New York last week

- ☐ 3
- ☐ 4
- ☒ 5

☒ There are five 2-grams in the phrase "they visited New York last week": "they visited", "visited New", "New York", "York last", and "last week".
- ☐ 6

2. Which attributes of large language models help them make better predictions than other types of language models? (Choose all that apply)

Choose as many answers as you see fit.

- ☒ LLMs contain many more parameters.

☒ By definition, a large language model is a model that has a very large number of parameters, which is helpful in making better predictions.
- ☒ LLMs capture more context.

☒ The large number of parameters in LLMs enable them to capture more context, which is helpful in making better predictions.
- ☐ LLMs don't need to be trained on as much data.
- ☐ LLMs never hallucinate.

3. True or False: A full Transformer consists of both an encoder and a decoder.

- ☒ True

☒ A Transformer contains both an encoder (which converts text to an intermediate representation) and a decoder (which converts an intermediate representation into text).
- ☐ False

4. An LLM is trained on a large corpus of data that includes the following example:

My cousin's new fashion line is so cool!

What mechanism helps the LLM learn that in this sentence, "cool" most likely means "great" and does not refer to the temperature of the clothing?

- ☐ Prompt engineering
- ☐ Decoder
- ☐ Distillation
- ☒ Self-attention

☒ Self-attention is the process LLMs use to weight the importance of relations between tokens in the input sequence. Self-attention enables LLMs to interpret words based on context, which in turn enables them to disambiguate in cases of multiple possible meanings.

5. Which of the following statements about fine-tuning vs. distilling is true?

- ☐ Fine-tuning increases the number of parameters in the model, whereas distillation decreases the number of parameters in the model.
- ☒ Fine-tuning generally increases the quality of the model's predictions, whereas distillation generally decreases the quality of the model's predictions.

☒ Fine-tuning updates the parameters of a model to improve its performance on a specialized task, improving prediction quality. By contrast, distillation's goal is to reduce the size of the model, which typically comes at the cost of some prediction quality.
- ☐ Fine-tuning is performed on text models, whereas distillation is performed on image models.
- ☐ None of the above are true.

Results

You scored 5 out of 5. Congratulations! You have passed this quiz.

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Large language models!

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