Quiz

Product education quiz [watsonx.ai PoX L4]



## Congratulations, you passed!

Your score Passing score Date

**80%** (8 of 10) answered correctly **75% 08 Dec 2023** 

## Review quiz results

2 incorrect answers

## Question 2

There are a number of challenges with the publicly available data repositories that are being used to train many of the open source foundation models. Which of the below are examples of concerns that IBM has when building trustworthy and efficient foundation models aimed at business use?

- Secondary survey analysis data, absence of informed consent-waivers, and censorship.
- Pirated content, copywrited materials, and issues with fairness in biased datasets.
  - Acquisition, curation and provenance.
- Undocumented data collection methods, personally identifiable information (PII), and the cost of sustainability.









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## are the advantages of this approach?

	0	This approach is computationally more cost effective (requiring less labeled data for increased efficiency), and only requires a single model with an interchangable adapter.
	0	This approach allows for the pinpointing of entities, which enhances the LLM's precision and accuracy in recognizing and classifying language pairs.
	0	This approach allows for customization of models by re-training on billions of parameters (based on labeled data) to meet the specific needs and objectives of a single task.
8	•	This approach of tuning allows for full control and interpretability of prompts, which reduces potential biases and provides generated text that can be interpreted in a meaningful way.
<b>⊘</b> 8 cc	orred	ct answers ^
	n wh	niteboarding a large language model (LLM) strategy session with a client, which one of wing best describes the benefits of a semantic search over a syntactic search?
	0	Semantic search systems perform very well with complex queries, taking less time to process and return requests, leading to an improved user experience.
•	•	Semantic search systems look beyond literal keywords in order to retrieve information. The result may not match the query word-for-word, but would still be highly relevant without necessitating business jargon.
	0	Semantic search systems have minimal complexity which are simple to implement, requiring insignificant effort and resources to configure and maintain.
	0	Semantic search systems come at a lower cost in terms of both hardware and labor which means decreased implementation time.
Ques		discussing the value proposition of a retrieval-augmented generation (PAG) PoY to a

You are discussing the value proposition of a retrieval-augmented generation (RAG) PoX to a Line of Business (LoB) executive who is keen to understand the concerns with LLMs from other









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<b>②</b>	Source of truth
C	) Information currency
C	) Business relevance
C	) Hallucination
are deto	4 aditional application programming frameworks and machine learning (ML) algorithms erministic, which means they will yield the same output each time they are given al input. There are many scenarios where large language models (LLMs) are not inistic. What is a scenario where a LLM would NOT exhibit deterministic behavior?
C	) For scenarios involving classification.
C	) When inferencing prompts against a model with less than 1 billion parameters.
C	) When performing named-entity recognition (NER).
<b>②</b>	If the model interface's Decoding parameter is set to the Sampling parameter.
languag	5 es the retrieval-augmentation generation (RAG) overcome complications from natural ge processing (NLP) which arise when the user asks a question or makes a request, but words they enter contain multiple meanings?
•	Embeddings created by LLMs are based on a transformer architecture which understands context and word positioning which drives semantic search.
C	) Using the LangChain framework to create a sequence of calls called grammatical tagging which determines the portion of user input based on its use and context.
С	Vector databases are used to extract subjective qualities like attitudes, emotions, and suspicion from user input.
С	) Large language models perform semi-supervised deep learning to reduce the reliance on annotated data in order to tune the algorithm.

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https://yourlearning.ibm.com/quiz-scores/QUIZ-AD702187EAA9/2023-12-08T13:30:20.027Z

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Retrieval-augmented generation (RAG) is an AI framework that improves LLM-generated responses by grounding the model on external sources of knowledge. In order to provide domain-informed responses in an economical way, what additional components does a system incorporating RAG require?

0	Prompt templates, p between calls.	parsing and s	equencing ca	alls, and mair	taining session	states
0	Chatbots, generativ	e question aı	nswering, an	d interaction	with APIs.	
0	Standard tuning ha	dware, supp	orted WML A	PIs, and call	sequencing.	
<b>⊘</b> ⊙	A knowledge base, a and an LLM.	a method of s	searching and	l retrieve use	r-requested info	rmation,
vectors t generation	n atabases are system hat can be used as tl on (RAG) framework. mbeddings, that can	he back-end Which of th	knowledge k e below are	pase for the rused as inpu	etrieval-augmer ts to model the o	nted
0	Relics					
0	Summaries					
<b>•</b>	Tokens					
0	Generators					
	architectures are qu fits of this technique		riendly witho	ut comprom	sing on accurac	y. What are
•	Quantization-friendl order to run on smal lower cost.	-		•		
0	Quantization-friend result in 20x smalle	-			•	ks which
					Q	• • •

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	0	Quantization-friendly architectures have advantages with model tuning and adaptation which addresses many use cases.
WI ne the WI	ed to u em. Ma nat is tl	orationalizing prompts against large language models (LLMs), application developers inderstand how to interact with the LLM endpoints and exchange information with anually issuing prompts and retrieving the information from LLMs can be complex. The name of the open source framework that simplifies many of the application nent tasks involved in integration LLMs?
	0	DevGPT
•	•	LangChain
	0	OpenLLM
	0	PyLLM
Done		

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