Quiz

Essential hands-on tasks 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 3

With all the hype surrounding large language models (LLMs), it is tempting to assume a LLM-based solution will generally be better than a machine learning (ML)-based solution. This is not always the case: these technologies have different characteristics, making them each suited for different scenarios. A good example is the classification use case. When would it make sense to train a traditional ML-based classifier instead of deploying a LLM-based classifier?

- When there are only small volumes of training data (where "small" means less than 100 rows).
- When you need a quick and easy way to develop the solution.
- When there are limited computational resorces available for model scoring / inferencing.
- When the cost of inferencing/scoring is low and there is a need for fast performance.











questions through a technique called *prompting*. There are multiple prompting approaches. Which one of the following describes "few-shot prompting"? Few-shot prompting involves giving LLMs a large dataset to improve their language understanding. Few-shot prompting includes a prompt instruction combined with a few examples of how you want the model to respond. Few-shot prompting includes a set of multiple prompts that share the same intention, but each is written in a slightly different way. () Few-shot prompting is a policy that limits the number and rate of prompts that users can issue to a LLM. 8 correct answers Question 1 Which one of the models included in watsonx.ai will yield the best results for zero-shot prompting? llama-2-70b-chat mpt-7b-instruct2 flan-t5-xxl-11b starcoder-15.5b Question 2 Web developers have the ability to infuse prompts developed in watsonx.ai into their applications through a REST interface. What parameters do you need to pass a watsonx.ai model's inferencing endpoint in order for your application to get responses for text that you input to the prompt? User id, model id, prompt input, model parameters

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People can interact with large language models (LLMs) by issuing instructions and asking

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0	Model id, prompt i	d, project id			
0	User id, project id,	prompt id			
load data performa sections	eparing a retrieval- a into the knowledg ance, data that is lo	e base, whicl aded into a v etrieval and p	n, in many cas ector databas	ses, is a vector datal se needs to be divide	important step is to pase. For reasonable ed into individual is process of dividing
0	Sharding				
0	Partitioning				
•	Chunking				
0	Slicing				
through a notebool	iguage models (LLM a Python API. Pytho	on code can e ake the most	ither be run i sense to mak	n scripts or from wit e prompting calls to	
0	During the develop	oment proces	s for your pro	mpts	
0	When you are exp	erimenting wi	th your promp	ots.	
•	In an application t	hat does real	-time inferenc	cing of your prompts	
0	When interactive e	exploration ar	nd step-by-ste	ep execution of code	is required.
free-forn	iguage models (LLM n text as an output.	However, the	e amount of to	free-form text as an ext a LLM can handle ore, this is an impor	
				Q	• • •

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https://your learning.ibm.com/quiz-scores/QUIZ-8CDFA6572376/2023-12-08T12:23:39.030Z

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	0	Query window, numbe	r of characters		
	0	Input window, number	of words		
	0	Parameter buffer, num	ber of bytes		
	•	Context window, numl	per of tokens		
	bearing of there wo a LLM-ba coversati	guage models (LLMs) a on future prompts. In of uld be no accumulation sed application that ha	ther words, if you are to of context while the c s a chatbot-like experi al. What technique wo	ans that previous prompt o issue a series of prompt onversation progresses. \ ence, where maintaining uld you use to enable you	s with a LLM, You are building context as the
	0	Ask the user to preface exchanges.	e each new prompt with	n a summary of the most r	ecent
	•	Use the Conversation context.	Buffer capability in Lan	gChain to record conversa	tion
	0	Set the "statefulness" to the LLM.	parameter to "true" for	all the calls your applicat	ion makes
	0	Use a LLM that has bui	lt-in memory for storing	g conversation context.	
	their sele text gene	onx.ai Prompt Lab has ected large language me erated for your applicat ab to ensure your answ	odel (LLM). You are wo	alog where you can tune rking on a project where y bulary. What setting do y bility of the words include	ou need the ou apply in the
	0	Set the "Decoding" set	ting to "Verbose".		
	•	Set the "Decoding" set	ting to "Sampling".		
	0	Set the "Encoding" set	ting to "Variety".		
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			=0a1111118	0001011	11010

Question 10

For retrieval-augmented generation (RAG) applications, challenges often arise when the information you need to load into the knowledge base is stored in binary document formats, like PDF. There are frequently errors when extracting text from binary documents, especially if the contents of the files are more complex. With this in mind, which one of the following approaches is best for ingesting data stored in document formats like PDF, Excel, and Word?

②	•	Extract text using Watson Discovery.
	0	Generate tokens from the documents using watsonx.ai.
	0	Apply the embedding model directly against the documents.
	0	Store the documents in binary large object (BLOB) columns in a database.

Done









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