## Congratulations! You passed!

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1.	In the videos, we described using either supervised learning or a prompt-based development process to
	build a restaurant review sentiment classifier. Which of the following statements about prompt-based
	development is correct?

1/1 point

- Prompt-based development is generally much faster than supervised learning.
- Prompt-based development requires that you collect hundreds or thousands of labeled examples.
- Prompt-based development requires that you collect hundreds or thousands of unlabeled examples (meaning reviews without a label B to say if it is positive or negative sentiment).
- If you want to classify reviews as positive, neutral, or negative (3 possible outputs) there is no way to write a prompt to do so: An LLM can generate only 2 outputs.

## **⊘** Correct

Prompt-based development allows you to take advantage of an LLM's ability to carry out sentiment classification, so you can get up and running very quickly because you don't need to train a model from scratch.

2.	What is a token in the context of a large language model (LLM)?	1/1 point
	A unit of cryptocurrency (like bitcoin or other "crypto tokens") that you can use to pay for LLM services.	
	O The part of the LLM output that has primarily symbolic rather than substantive value (as in, "the court issued a token fine", or "the LLM generated a token output").	
	A physical device or digital code to authenticate a user's identity.	
	A word or part of a word in either the input prompt or LLM output.	
	Correct Tokens in the context of LLMs refer to a unit of text. Common words are typically represented by a single token, while uncommon words may be broken into two or more tokens.	
3.	What are the major steps of the lifecycle of a Generative Al project?	1/1point
3.	What are the major steps of the lifecycle of a Generative AI project?  Scope project → Build/improve system → Internal evaluation → Deploy and monitor	1 / 1 point
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4.	You are building a customer service chatbot. Why is it important to monitor the performance of the system after it is deployed?	1 / 1 point
	O Because of the LLM's knowledge cutoff, we must continuously monitor the knowledge cutoff and update its knowledge frequently.	
	O This is false. So long as internal evaluation is done well, further monitoring is not necessary.	
	In case customers say something that causes the chatbot to respond in an unexpected way, monitoring lets you discover problems and fix them.	
	Every product should be monitored to track customer satisfaction this is good practice for all software.	
	Correct Users can be very creative in the ways they prompt chatbots, so monitoring the system can help you identify any issues with the chatbot's output as they arise and allow you to improve the system in response.	
5.	You are working on using an LLM to summarize research reports. Suppose an average report contains roughly 6,000 words. Approximately how many tokens would it take an LLM to process 6,000 input words? (Assume 1 token = 3/4 words, or equivalently, 1 word \approx 1.333 tokens).	1/1 point
	4,500 tokens (6000 * 3/4)	
	O 6,000 tokens	
	8,000 tokens (about 6000 * 1.333)	
	14,000 tokens (about 6000 * 1.333 + the original 6000 words)	
	Correct A token typically represents a single common word or a part of the word. This means that a word can represent anywhere between 1 or more tokens. Therefore, an LLM typically requires more tokens to process the input number of words.	