

START OF QUIZ
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Question 1

Topic: Lecture 7

Source: Lecture 7

How might we use SRL in the process of slot-filling? (1)

Question 2

Topic: Lecture 6

Source: Lecture 6

For the ELQ algorithm, we talked about how the entity encoder typically takes the title and first 128 tokens of an encyclopedia article. Imagine we were building a database from books. What might we use as the input to the entity encoder that would have a similar effect. Explain. (2)

Question 3

Topic: Lecture 5

Source: Lecture 5

How does Bert deal with the potentially infinite vocabulary required to answer questions? (1)

Question 4

Topic: Lecture 6

Source: Lecture 6

Neural Q/A (even before ChatGPT) was significantly better than previous models. Beyond just the traditional benefits of deep learning that we know of, (such as longer dependencies, etc.), why is this the case? (2)

Question 5

Topic: Lecture 5

Source: Lecture 5

Explain why a good IR tool is necessary to perform Bert-based Q/A. (1)

Question 6

Topic: Lecture 7

Source: Lecture 7

How might we make Eliza more robust (don't just say that you would have her use Chat-GPT's API). (1)

Question 7

Topic: Lecture 8

Source: Lecture 8

We waited until the last week of classes to talk about policy-making systems (like the one in ChatGPT), but several other systems you've looked at over the program could be considered to have a policy algorithm in place. Briefly describe one, and how you view it as a decision policy. (2)

Question 8

Topic: Lecture 8

Source: Lecture 8

Do you think a dialogue policy state graph is a Markov Chain? Briefly describe why or why not. (If you can't remember Markov chains, we talked about them in DSCI 572). (1)

Question 9

Topic: Long

Source: Lecture 7

Imagine that I'm working with a client who wants a dialogue system that provides advice for his company. It has to fit on a phone, but might end up in regions with very limited cell service, so it has to be locally installed. We have limited memory (let's say 1Gb). How would we go about building such a tool? What are some questions we should ask the client? How would we provide the required functionality? Is it even possible? (3)

END OF QUIZ