

START OF QUIZ

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Question 1

Topic: Lecture 5

Source: Lecture 5

ChatGPT differs significantly from even other neural Q/A systems. Provide at least 2 significant differences, and briefly describe them. (2)

Question 2

Topic: Lecture 6

Source: Lecture 6

What is the focus of the following question: “Do you know when Jaws was released”? (1)

Question 3

Topic: Lecture 5

Source: Lecture 5

Bert accepts a single string as input, but Q/A requires a question and a potential source. Describe how we deal with this problem. (1)

Question 4

Topic: Lecture 6

Source: Lecture 6

What tools are necessary to extract an RDF triple from a question? Provide at least 2, and briefly explain. (1)

Question 5

Topic: Lecture 7

Source: Lecture 7

Many times when speaking to an ASR dialogue agent (like Alexa), I will try to correct her while she is speaking, and she will completely ignore me. Provide a reasonable explanation of why you think that is. (1)

Question 6

Topic: Lecture 8

Source: Lecture 8

Imagine that we have a dialogue system trained with reinforcement learning. What part of a dialogue might result in a negative reward (ie, a penalty) to the system's policy algorithm?
(2)

Question 7

Topic: Lecture 7

Source: Lecture 7

We discussed slot error rate in class, but it's fully-supervised. Can you think of a distantly-supervised way to calculate essentially the same thing? (1)

Question 8

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 9

Topic: Long

Source: Lecture 8

As more data and computing power are becoming available, chatbots are becoming more generalists, able to answer questions in a large variety of topics. That said, specialized dialogue bots can often be very good at their jobs (such as Watson being much better at Jeopardy than ChatGPT). Can you think of a way that we might be able to leverage the strengths of each system to improve the other? Write out pseudocode for where you might inject dialogue bots into ChatGPT, and simultaneously use ChatGPT to improve the dialogue systems. This is a huge, theoretical problem, and I'm not looking for you to solve it - I'm just interested in your thought process about where the models might be able to build off each other. (3)

END OF QUIZ