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English

▼

Due

Jul 21, 11:59 PM +07

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Week 3 Quiz

Graded Assignment • 1h

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Beta

Ready to review what you've learned before starting the assignment? I'm here to help.

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Review Learning Objectives

Assignment details

Submitted

Jul 21, 11:59 PM +07

Attempts

Unlimited

Try again

Submitted

Jun 29, 8:33 PM +07

1. Which of the following are true in regards to Constitutional AI? Select all that apply.

1 point

Graded Assignment

☒ In Constitutional AI, we train a model to choose between different responses.

☒ To obtain revised answers for possible harmful prompts, we need to go through a Critique and Revision process.

☐ For constitutional AI, it is necessary to provide human feedback to guide the revisions.

☒ Red Teaming is the process of eliciting undesirable responses by interacting with a model.

2. What does the "Proximal" in Proximal Policy Optimization refer to?

1 point

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☐ The algorithm's ability to handle proximal policies.

☐ The algorithm's proximity to the optimal policy

☒ The constraint that limits the distance between the new and old policy

☐ The use of a proximal gradient descent algorithm

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3. "You can use an algorithm other than Proximal Policy Optimization to update the model weights during RLHF."

1 point

Is this true or false?

☒ True

☐ False

Your grade

To pass you need at least 80%. We keep your highest score.

90%

View submission

See feedback

4. In reinforcement learning, particularly with the Proximal Policy Optimization (PPO) algorithm, what is the role of KL-Divergence? Select all that apply.

1 point

4

Like

0

Dislike

0

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☐ KL divergence is used to train the reward model by scoring the difference of the new completions from the original human-labeled ones.

☐ KL divergence encourages large updates to the LLM weights to increase differences from the original model.

☒ KL divergence measures the difference between two probability distributions.

☒ KL divergence is used to enforce a constraint that limits the extent of LLM weight updates.

5. Fill in the blanks: When fine-tuning a large language model with human feedback, the action that the agent (in this case the LLM) carries out is _____ and the action space is the _____.

1 point

☐ Processing the prompt, context window.

☐ Generating the next token, the context window

☒ Generating the next token, vocabulary of all tokens.

☐ Calculating the probability distribution, the LLM model weights.

6. How does Retrieval Augmented Generation (RAG) enhance generation-based models?

1 point

☐ By optimizing model architecture to generate factual completions.

☐ By applying reinforcement learning techniques to augment completions.

☐ By increasing the training data size.

☒ By making external knowledge available to the model

7. How can incorporating information retrieval techniques improve your LLM application? Select all that apply.

1 point

☒ Overcome Knowledge Cut-offs

☐ Faster training speed when compared to traditional models

☐ Reduced memory footprint for the model

☒ Improve relevance and accuracy of responses

8. What are correct definitions of Program-aided Language (PAL) models? Select all that apply.

1 point

☒ Models that offload computational tasks to other programs.

☐ Models that enable automatic translation of programming languages to human languages.

☒ Models that assist programmers in writing code through natural language interfaces.

☐ Models that integrate language translation and coding functionalities.

9. Which of the following best describes the primary focus of ReAct?

1 point

☐ Enhancing language understanding and decision making in LLMs

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1 point

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