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Week 2 quiz

Graded Assignment • 1h

English

Due Jul 14, 11:59 PM +07

Menu

Week 2 quiz

Review Learning Objectives

coachBeta

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

1 point

1. Fill in the blanks: _____ involves using many prompt-completion examples as the labeled training dataset to continue training the model by updating its weights. This is different from _____ where you provide prompt-completion examples during inference.

☒ Instruction fine-tuning, In-context learning

☐ Prompt engineering, Pre-training

☐ Pre-training, Instruction fine-tuning

☐ In-context learning, Instruction fine-tuning

2. Fine-tuning a model on a single task can improve model performance specifically on that task; however, it can also degrade the performance of other tasks as a side effect. This phenomenon is known as:

☒ Catastrophic forgetting

☐ Catastrophic loss

☐ Model toxicity

☐ Instruction bias

Assignment details

Due

Jul 14, 11:59 PM +07

Attempts

Unlimited

Submitted

Jun 29, 5:05 PM +07

Try again

3. Which evaluation metric below focuses on precision in matching generated output to the reference text and is used for text translation?

☒ BLEU

☐ HELM

☐ ROUGE-1

☐ ROUGE-2

Your grade

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

100%

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4. Which of the following statements about multi-task finetuning is correct? Select all that apply:

☐ Performing multi-task finetuning may lead to slower inference.

☒ Multi-task finetuning can help prevent catastrophic forgetting.

☐ Multi-task finetuning requires separate models for each task being performed.

☒ FLAN-T5 was trained with multi-task finetuning.

5. "Smaller LLMs can struggle with one-shot and few-shot inference:"

Is this true or false?

☒ True

☐ False

6. Which of the following are Parameter Efficient Fine-Tuning (PEFT) methods? Select all that apply.

☒ Selective

☐ Subtractive

☒ Reparameterization

☒ Additive

7. Which of the following best describes how LoRA works?

☐ LoRA trains a smaller, distilled version of the pre-trained LLM to reduce model size

☐ LoRA continues the original pre-training objective on new data to update the weights of the original model.

☒ LoRA decomposes weights into two smaller rank matrices and trains those instead of the full model weights.

☐ LoRA freezes all weights in the original model layers and introduces new components which are trained on new data.

8. What is a soft prompt in the context of LLMs (Large Language Models)?

☒ A set of trainable tokens that are added to a prompt and whose values are updated during additional training to improve performance on specific tasks.

☐ A strict and explicit input text that serves as a starting point for the model's generation.

☐ A technique to limit the creativity of the model and enforce specific output patterns.

☐ A method to control the model's behavior by adjusting the learning rate during training.

9. "Prompt Tuning is a technique used to adjust all hyperparameters of a language model."

coach

1 point

https://www.coursera.org/learn/generative-ai-with-llms/assignment-submission/aMaki/week-2-quiz/view-submission