✅ **Congratulations! You passed!**

| **Grade** received 100% | **Latest Submission Grade** 100% | **To pass** 80% or higher | **Go to next item** |

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1. What process turns text into numeric representations for machine learning models? **1 / 1 point**

   ○ Probability machine
   ○ Deployment
   ○ Tokenizer
   ◉ Encoding

   ✅ **Correct**
   Correct! Encoding refers to converting text tokens into numeric values.

2. What strategy involves combining search with an LLM to improve results? **1 / 1 point**

   ◉ Retrieval augmented generation
   ○ Cloud deployment
   ○ Interactive API
   ○ Fine-tuning

   ✅ **Correct**
   Correct! Retrieval augmented generation combines search with an LLM.

3. What are some of the risks and challenges associated with using large language models? **1 / 1 point**

   ○ Open source models
   ○ Running models locally
   ○ Foundation models
   ◉ Potential for incorrect or harmful information

   ✅ **Correct**
   Correct! LLMs can sometimes generate incorrect or problematic content.

4. What type of model is GPT-3 created by OpenAI? **1 / 1 point**

   ○ Foundation model
   ◉ Large language model
   ○ Retrieval Language Model (RLM)
   ○ Generative API

   ✅ **Correct**
   Correct! GPT-3 is a well-known large language model created by OpenAI.

5. What company hosts a popular repository of open source AI models? **1 / 1 point**

   ○ Mozilla
   ○ OpenAI
   ○ Microsoft
   ◉ Hugging Face

   ✅ **Correct**
   Correct! Hugging Face hosts many open source models in their model repository.

6. What technique adapts an existing model to a new, more specific task? **1 / 1 point**

   ○ De-tuning
   ○ Quantizing
   ◉ Fine-tuning
   ○ Tokenization

   ✅ **Correct**
   Correct! Fine-tuning trains a model further for a specific new task.

7. What project from Mozilla allows running models locally on your computer? **1 / 1 point**

   ◉ LLAMA-file

○ Azure OpenAI Service

○ Hugging Face

○ OpenAI

✓ **Correct**
Correct! LAMA-file from Mozilla lets you run models locally.

8. What are pre-trained deep learning models that can be adapted for new tasks called? `1 / 1 point`

○ Large language models

○ Probability models

○ Large OpenAI Models

◉ Foundation models

✓ **Correct**
Correct! Adaptable pretrained models are referred to as foundation models.

9. What is a risk or challenge with Large Language Models? `1 / 1 point`

○ High compute costs due to lack of GPU availability

◉ That users can take results as truth or facts

○ That they can produce somewhat accurate data

○ That they can generate large amounts of incorrect data

✓ **Correct**
Correct! LLMs do not necessarily produce truth or facts and these have to be verified.

10. What is a well-known approach that involves carefully crafting the input text prompts? `1 / 1 point`

○ Prompt encoding

◉ Prompt engineering

○ Interactive Prompting

○ Text prompting

✓ **Correct**
Correct! Prompt engineering focuses on writing effective prompts.