Name _____

Loop Vocabulary Cloze - The Language of AI Learning

When we talk about how AI learns, there are a few important vocabulary words to understand:

Input - The data, question, or task that is given to the AI.

Output - The AI's answer, prediction, or action.

Feedback - Information from a human (or system) that tells the AI if it was right or wrong.

Training Data - The examples the AI studies in order to learn.

Iteration - One complete cycle of input → output → feedback → retraining.

Retraining - Updating the AI with corrections so it does better next time.

These words describe the **feedback loop**, the repeating cycle that makes AI smarter.

Read the paragraph below and fill in the blanks using the word bank. Each word will be used once.

Word Bank: *Input, Output, Feedback, Training Data, Iteration, Retraining*

Artificial Intelligence learns step by step. First, it receives an _____, such as a picture or a question. Then, the AI produces an _____, which may or may not be correct. If the answer is wrong, a person provides _____ to show the AI its mistake. Over time, the AI collects many examples, called _____, that help it get better at solving problems. Each time the AI goes through the cycle of learning, it completes one _____. Finally, with corrections added, the AI goes through _____ so it improves in the future.

Now try applying the words in shorter examples. Fill in the blanks with the correct term from the word bank.

1. A person uploads a photo of a dog. This is the AI's _____.

2. The AI says: "That's a cat." This is the AI's _____.

3. The person corrects it by saying: "No, that's a dog." This is the _____.

4. The AI studies thousands of labeled images to improve. These are the _____.

5. The AI goes through the loop again and again. Each cycle is an _____.

6. After receiving corrections, the AI updates itself. This is called _____.