Name _____

# Fixing the AI Feedback Loop

AI learns through a **feedback loop** made of four steps:

**Input** - The AI receives data or a task.
**Output** - The AI gives an answer or action.
**Feedback** - A person says if it was right or wrong.
**Retraining** - The AI updates itself so it can improve.

## Unscramble the Steps

Fill in the blank with the correct step (**Input, Output, Feedback, Retraining**).

_____ The AI produces an answer or prediction.
_____ The AI updates itself with corrections.
_____ A person gives the AI data, a question, or a task.
_____ A human gives feedback about whether the AI was right or wrong.

**Apply It -** Fill in the blanks with the correct step.

### Scenario A: Translation App

_____ A person asks the AI to translate "Good morning" into French.
_____ It says: "*Bonne nuit*" (Good night).
_____ The user replies: "*That's wrong. It should be Bonjour.*"
_____ The AI saves the correction and retrains.

### Scenario B: Self-Driving Car

_____ The car's sensors detect a stop sign.
_____ The car keeps driving without slowing down.
_____ The safety driver presses the brakes and reports the mistake.
_____ The AI updates so next time it will stop correctly.

### Scenario C: Photo Classifier

_____ A person uploads a picture of their dog.
_____ The AI labels it: "*Cat.*"
_____ The person clicks "wrong" and types: "*This is a dog.*"
_____ The AI updates so it can better recognize dogs.