

Name _____

Fumbled Explanations - Understanding How AI Systems Work

AI systems follow a logical sequence of steps: **Input** → **Processing** → **Model** → **Output** → **Feedback**. But sometimes the steps are described out of order. Your job is to carefully read and put the steps back into the correct sequence. After that, you'll read about an AI chatbot and label its parts.



Reordering Jumbled Explanations - Below are scrambled steps of how a *music recommendation AI* works. Put them back into the correct order by writing the numbers **1-5** in the boxes.

- ☐ The system shows you a list of suggested songs and playlists based on its predictions.
- ☐ The AI applies algorithms to look for patterns in your listening habits and compares them with millions of other users.
- ☐ Over time, your actions - skipping songs, liking tracks, or replaying favorites - are recorded so the system can get better.
- ☐ At the center is a trained model that can quickly predict what songs you might like using data and patterns.
- ☐ The system takes in information such as your recent listening history, your likes, and the genres you usually play.

Applying to a Chatbot Example - Read the passage below about an AI chatbot (like ChatGPT). Then, label each part of the system and put the steps in the correct order.

How an AI Chatbot Works - When you type a question into a chatbot, the words you type are collected by the system. The system then breaks down your question into tokens (smaller pieces of language) and sends it through layers of a large neural network. At the core is a trained model that has learned patterns of language from huge datasets. Based on this training, the chatbot generates a prediction of what words should come next. Finally, the chatbot sends back a full response to you. If you rate the response as helpful or unhelpful, that information is used later to adjust and improve the system.

Tasks: Label each step of the chatbot's process with the correct part of the AI system (**Input, Processing, Model, Output, Feedback**).

Step 1: _____

Step 2: _____

Step 3: _____

Step 4: _____

Step 5: _____