

Name _____

Fumbled Explanations - Understanding How AI Systems Work Answer Key

Part A: Music Recommendation AI

Correct Order:

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

Answer Order (numbers): 1 → 2 → 3 → 4 → 5

Part B: Chatbot Example (like ChatGPT)

Step Labels:

- Step 1: *When you type a question into a chatbot, the words you type are collected by the system.* → **Input**
- Step 2: *The system breaks down your question into tokens and sends it through layers of a large neural network.* → **Processing**
- Step 3: *At the core is a trained model that has learned patterns of language from huge datasets.* → **Model**
- Step 4: *Based on this training, the chatbot generates a prediction and sends back a full response.* → **Output**
- Step 5: *If you rate the response as helpful or unhelpful, that information is used later to improve the system.* → **Feedback**

Correct Order: Input → Processing → Model → Output → Feedback