Critical Vocabulary in Context - Parts of an AI System

How Movie Recommendation AI Works

When you open a streaming app, the system immediately shows you a list of suggested movies and TV shows. These suggestions come from an AI system that is built on several important parts.

The process begins with a **dataset**: a large collection of information about what users have watched, rated, or searched for. This dataset is not just a random list - it contains patterns that show which kinds of movies people tend to like.

The system then uses an **algorithm**, which is like a set of instructions or rules for solving a problem. In this case, the algorithm examines the dataset to find connections between users and movies. For example, if many users who liked *Movie A* also enjoyed *Movie B*, the algorithm notices this pattern.

Over time, the algorithm helps to train a **model**. The model is the "learned system" that can take new input (like your recent viewing history) and make predictions about what you might want to watch next. While the dataset was the raw material and the algorithm was the procedure, the model is the actual product that can make predictions quickly.

Finally, there is **feedback**. When you click "like," give a thumbs-down, or simply watch a show all the way through, that information is fed back into the system. Feedback tells the AI whether its predictions were good or not, and this loop helps the system improve over time.

1. What is a dataset, based on the passage? _____
A. A random list of movies chosen by the app
B. A large collection of user information that shows patterns
C. A set of rules for solving a problem
D. A tool that predicts future choices

2. What is an algorithm, based on the passage? _____
A. A set of instructions or rules for analyzing data
B. The "finished product" that makes predictions
C. User feedback that improves the system
D. A random pattern in data

3. What is a model, based on the passage? _____
A. The raw data collected about users
B. The final system that can take new input and make predictions
C. The feedback loop that improves the AI
D. A set of instructions used to train data

4. What is feedback, based on the passage? _____
A. The process of collecting a dataset
B. The predictions made by the model
C. User responses that help the system improve
D. A set of instructions for solving problems

GetWorksheets.com