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Assignment 0

Q1 Define an agent

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→ An agent in AI refers to an entity that perceives its environment through sensors and acts upon the environment through actuators. It operates on specific goals and can take various actions to meet those goals. Agents can be tangible such as robots, or they can be digital. The key characteristics of an agent include, independence, reactivity and their capacity to learn over time.

Q2 For flipkart shopping agent, what is the Agent type, Environment, Actuators, Performance measure, Sensors, Agent Architecture?

→ Agent type:- It is a software type tool designed to help users shop online. It guides users in findings the product they're looking for and makes the whole buying process easier and faster.

• Environment:- This online shopping platform, including the product catalog, user interface, and backend systems like inventory management.

• Actuators:- It performs actions like showing product recommendations, adding items to the cart, starting purchases, and suggesting discounts.

- Performance measure:- Success is measured by user satisfaction, the number of completed purchases, accurate recommendations, and user engagement.
- Sensors: It collects data from user inputs (like searches, clicks, and purchase history) and external factors (such as product availability and promotions).
- Agent Architecture:- The agent reacts to user actions in real time and learns over time using machine learning to provide better, personalized recommendations.