**What is the role of intelligent agent?**

**An intelligent agent is a system that can perceive its environment, take actions to achieve specific goals, and learn from experience.** It's essentially a decision-making entity that can interact with its surroundings.

**Key Roles of Intelligent Agents:**

* **Perception:** They can sense and interpret information from their environment using sensors (like cameras, microphones, or touch sensors).
* **Action:** They can take actions to influence their environment using actuators (like robotic arms, motors, or speakers).
* **Learning:** They can adapt and improve their behaviour over time by learning from experiences and new information.
* **Goal-Oriented:** They have defined objectives and work towards achieving them.
* **Autonomy:** They can operate independently without constant human intervention.

**Examples of Intelligent Agents:**

* **Virtual assistants:** Siri, Alexa, Google Assistant
* **Self-driving cars**
* **Chatbots**
* **Game-playing AI**
* **Robotics**

In essence, intelligent agents are designed to mimic human intelligence and decision-making capabilities, automating tasks and solving problems in a more efficient and effective manner.