A knowledge-based agent in AI uses a knowledge base to store and retrieve information for making decisions and responding to gueries. This knowledge base can include facts, rules, and other data relevant to the agent's task. For example, a customer service agent might use a knowledge base to store FAQs and resolutions for common issues, enabling it to provide accurate and immediate answers.

Key Components and Examples:

- Knowledge Base: A repository of information, including facts, rules, and procedures.
- Inference Engine: A component that uses the knowledge base and logical reasoning to make inferences and draw conclusions.
- Perception and Action: The agent interacts with its environment through sensors and actuators.
- **Examples:**
 - Customer Service Agent: Stores FAQs, troubleshooting steps, and standard operating procedures for handling customer inquiries.
 - Medical Diagnosis Agent: Utilizes a knowledge base containing symptoms, diseases, and treatment options.
 - Robotic System: Stores instructions and procedures for completing tasks.
- Internal Knowledge Base: A company's internal documentation, training materials, and procedures can be stored in a knowledge base for internal use.

Benefits of Knowledge-Based Agents:

Improved Accuracy:

Agents can provide more accurate and consistent responses based on the information stored in their knowledge base 🕝

Increased Efficiency:

By retrieving information from the knowledge base, agents can respond to gueries faster and with less effort @

Enhanced Decision-Making:

Agents can use their knowledge base to make more informed decisions based on the information they have access to.

Reduced Human Intervention:

Agents can handle routine tasks and queries without requiring human intervention, freeing up human staff for more complex work.