WHAT ARE

AGENTS IN GENERATIVE AI
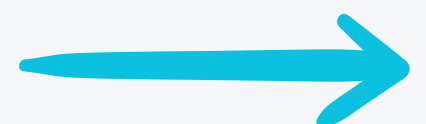
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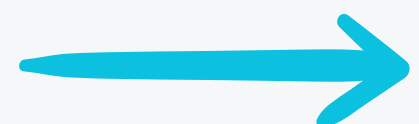
Definition

- Agents in generative AI are software programs designed to act autonomously, making decisions and performing tasks without continuous human intervention.
- These agents are typically powered by artificial intelligence and machine learning algorithms, allowing them to learn from data, adapt to new information, and improve over time.
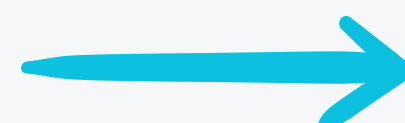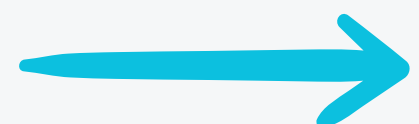
Definition

- Imagine you have a super smart robot friend who loves to help you.
- This robot friend is called an agent, and it's like a character in a video game that can do things on its own.
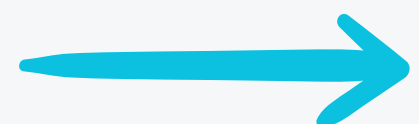
Characteristics

- Autonomy: Agents operate independently, making decisions and taking actions based on their programming and training.Learning

- Capability: Many agents use machine learning to improve their performance by learning from data and past experiences.

Characteristics

- Interaction: Agents can interact with their environment, other agents, and humans to achieve their goals.
- Adaptability: Agents can adapt to new information and changing environments to optimize their performance.

Applications

- Customer Service: Automated support agents handle customer inquiries and provide solutions.
- Content Creation: Generative agents produce articles, artworks, and music, assisting in creative processes.
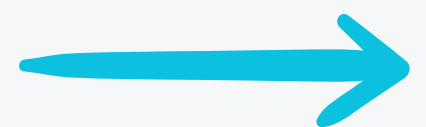
Applications

- Healthcare: AI agents assist in diagnostics, treatment planning, and patient monitoring.
- Finance: Agents analyze market trends, execute trades, and manage investment portfolios.
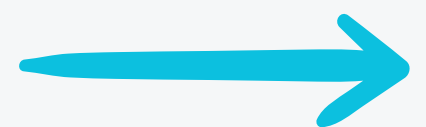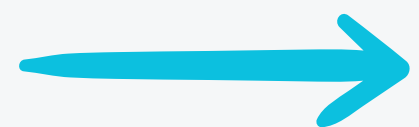
Types

- Chatbots: These are conversational agents designed to simulate human-like conversations. Examples include customer service bots and virtual assistants like Siri and Alexa.
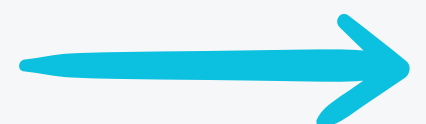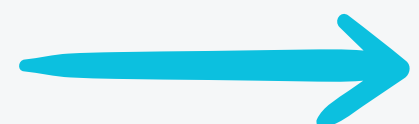
Types

- Content Generators: These agents create various forms of content, such as text, images, music, and videos. Examples include GPT-4 for text generation and DALL-E for image creation.
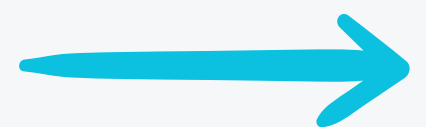
Types

- Recommender Systems: These agents provide personalized recommendations based on user preferences and behavior. Examples include Netflix's recommendation engine and Amazon's product recommendations.
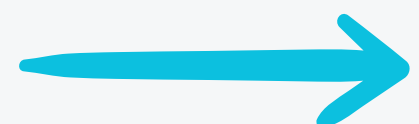
Types

- Game AI: These agents control non-player characters (NPCs) in video games, making decisions and actions to create a dynamic gaming experience.
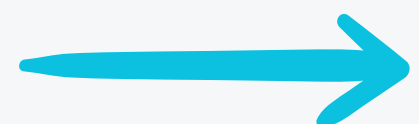
How Agents Work

- Data Collection: Agents gather data from their environment or through user interactions.
- Processing and Analysis: The collected data is processed and analyzed using machine learning algorithms.

How Agents Work

- Decision Making: Based on the analysis, the agent makes decisions and takes actions to achieve its goals.
- Feedback Loop: The agent receives feedback on its actions, allowing it to learn and improve over time.

THANK YOU

- Special thanks to Gemini and Chatgpt for all the help on content
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