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In today's video, Dwight from Bezaleel Consulting Group breaks down twelve essential AI terms to keep you ahead in the rapidly evolving world of artificial intelligence. Understand these concepts to grasp how AI is shaping various industries.

1. Artificial Intelligence (AI) - Computer systems that perform tasks usually requiring human intelligence.

2. Machine Learning (ML) - A subset of AI where computers learn from data to make decisions and predictions without being programmed for each thing they do.

3. Deep Learning—Expanding on ML, deep learning uses neural networks with layers that allow computers to learn from both unstructured (emails, scanned documents, photos) and structured (spreadsheets and databases) data. Examples would be Siri and Alexa.

4. Neural Network - Inspired by the human brain, a neural network is a system of interconnected nodes or neurons that work together to process data and recognize patterns.

5. Natural Language Processing (NLP) - A branch of AI focused on the interaction between computers and human language. Grammarly is a great example of NLP.

6. AI Assistant - A software program designed to perform tasks or services for someone or something based on a command or a question. Siri and Alexa are both examples of AI Assistants.

7. AI Chatbot - A software program designed to simulate conversations with human users, frequently over the internet. Often present on websites for customer support. AI Chatbots are powered both by AI and NLP.

8. AI Agent - A program or a system that acts autonomously to complete tasks on behalf of someone or something else. AI Agents observe its environment, makes decisions, and takes action to optimize and achieve specific objectives. Examples include virtual support agents that can accurately respond to complex questions or non-player characters in video games.

9. AI Automation - Refers to the use of AI technologies to automate rule-based tasks. A perfect example would be automating the generation of a summary of a YouTube video. Using an AI assistant to watch for newly uploaded videos, the automation would then send the video's URL to a different AI agent that processes the video and produces a text summary.

10. Computer Vision - Enables machines to interpret and understand the visual world. By processing images and videos systems can recognize objects, faces, and even take actions in real-time. Self driving vehicles are an example of Computer Vision technology at work.

11. Algorithms - Algorithms are the rules and instructions that computers follow to complete a task. Algorithms are the building blocks that empower AI.

12. Reinforcement Learning (RL) - A type of machine learning where an agent learns to make decisions by taking actions in an environment to maximize efficiency. RL is how computers learn to beat masters at chess and video games.

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