

## 'Some' Common AI Terms

1. **Artificial Intelligence (AI):** AI refers to computer systems capable of performing tasks that historically required human intelligence.
2. **AI Ethics:** Refers to the issues that AI stakeholders must consider to ensure responsible development and use of AI technology.
3. **Algorithm:** A sequence of rules given to an AI machine to perform a task or solve a problem.
4. **Chatbot:** A software application designed to imitate human conversation through text or voice commands.
5. **Cognitive Computing:** Essentially the same as AI, focusing on mimicking human thought processes like pattern recognition and learning.
6. **Computer Vision:** Interdisciplinary field focusing on how computers gain understanding from images and videos.
7. **Data Science:** The study of data, including extraction, analysis, visualization, and interpretation.
8. **Deep Learning:** Subset of machine learning using neural networks with multiple layers to learn complex representations.
9. **Emergent Behavior:** Unintended outcomes arising from interactions within complex systems.
10. **Generative AI:** AI models that generate new content, such as images, text, or music.
11. **Guardrails:** Guidelines and constraints to ensure responsible AI development.
12. **Image Recognition:** Identifying and classifying objects or patterns in images.
13. **Large Language Models (LLMs):** AI models capable of understanding and generating human-like text.
14. **Machine Learning:** Subset of AI where algorithms learn from data and improve over time.
15. **Natural Language Processing (NLP):** AI techniques for understanding and generating human language.
16. **Neural Network:** A Neural Network is a type of machine learning model that is inspired by the structure and function of the human brain. A Neural Network is used to solve complex problems that are difficult to solve using traditional programming techniques.
17. **Reinforcement Learning:** Learning through trial and error based on rewards and penalties.