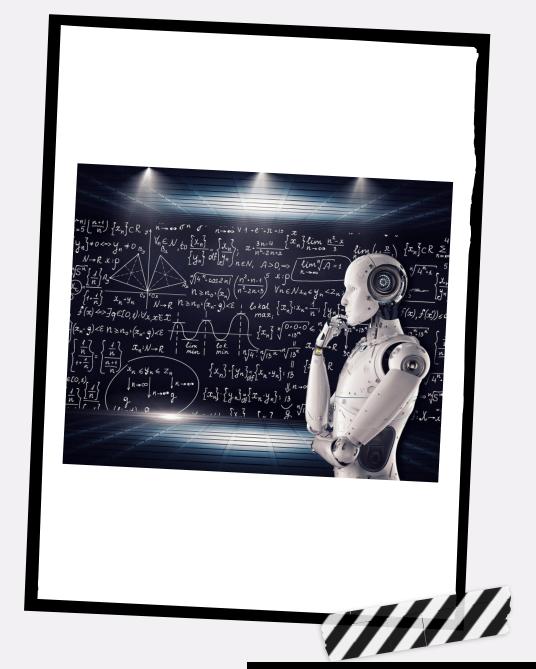


- Artificial Intelligence refers to the simulation of human intelligence processes by machines, especially computer systems
- It involves creating systems that can perform tasks that would typically require human intelligence, such as understanding natural language, recognizing patterns, solving complex problems, learning from experience, and making decisions
- AI has seen rapid advancements in recent years, transforming industries such as healthcare, finance, entertainment, and manufacturing

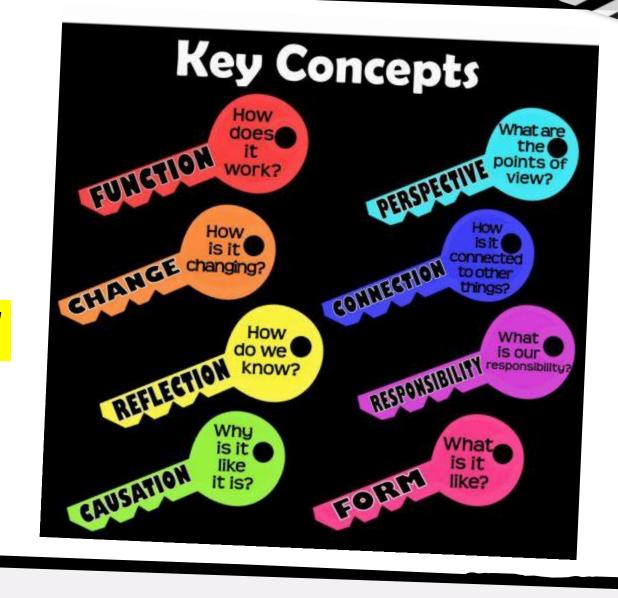
Introduction

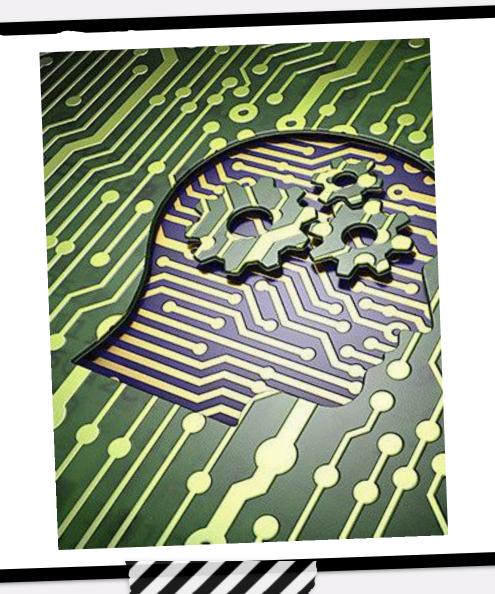
Types of Al

- 1. Narrow or Weak AI: This type of AI is designed to perform a specific task or a set of tasks without possessing a general understanding of the world. Examples include voice assistants like Siri or Alexa, recommendation systems used by streaming platforms, and autonomous vehicles. These AI systems excel at their defined tasks but lack the ability to perform tasks outside their designated domain.
- 2. General or Strong AI: This is a hypothetical form of AI that would have the ability to understand, learn, and apply knowledge across a wide range of tasks—similar to human intelligence. General AI doesn't exist yet and is often the subject of science fiction and philosophical discussions.



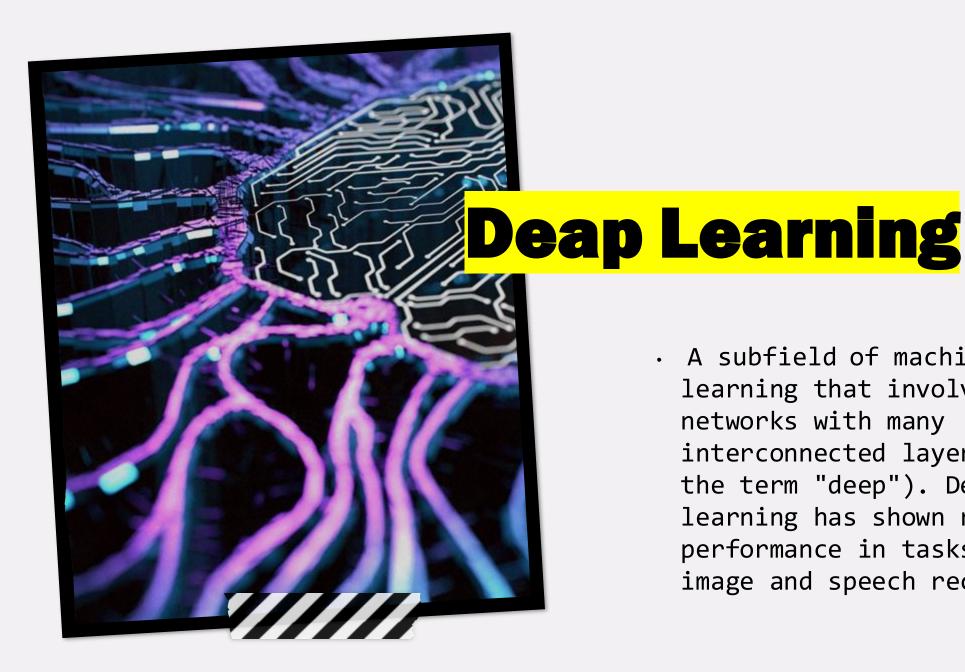
Key Concepts of





Machine Learning

 A subset of AI that focuses on enabling machines to learn from data and improve their performance over time.
Machine learning algorithms can identify patterns and make predictions without being explicitly programmed.



 A subfield of machine learning that involves neural networks with many interconnected layers (hence the term "deep"). Deep learning has shown remarkable performance in tasks like image and speech recognition.



 AI-driven robots are designed to interact with their environment and perform tasks with varying degrees of autonomy. Industrial robots, drones, and self-driving cars are examples.

Conclusion

• AI has seen rapid advancements in recent years, transforming industries such as healthcare, finance, entertainment, and manufacturing. However, ethical considerations, bias mitigation, and the potential impact on employment are important discussions surrounding AI's development and deployment.

