

ARTIFICIAL INTELLIGENCE

Artificial Intelligence is a field which combines computer science and datasets to create problem-solving applications and machines.

This field includes the sub-fields of machine learning and deep learning.

DEEP LEARNING, NEURAL NETWORKS, AND TYPES OF AI

Deep learning refers to having a neural network (a computer system modeled after the human brain).

Weak AI (also called Narrow AI or Artificial Narrow Intelligence) is an AI system trained to perform specific tasks: generating text, solving mathematical problems, etc. These include applications such as Apple's SIRI, Microsoft's Cortana, Amazon's Alexa, AI's Chat GPT, and other systems.

Strong AI is made up of Artificial General Intelligence (AGI) and Artificial Super Intelligence (ASI) these are "theoretical" forms of AI where a machine would have an intelligence equal to humans. These systems are predicted to be self-aware (or conscious). Currently, there are no known systems with this ability. However, computer scientists are working towards this.

LARGE LANGUAGE MODELS

Large Language Models (or LLM) are systems that can generate probabilities of a series of words based on a set of existing texts. Many are trained on speech recognition, translation, grammar induction/prediction, handwriting recognition, English language syntax, information retrieval, etc. Examples of Large Language Models are Open AI's GPT model, Google's Bard, Meta's LLaMa, etc.

Some systems of Language Models are closed with a limited set of existing texts (or "training texts"). Other systems are "open" which allows the model to access various texts within the World Wide Web (or internet).

All of these computer systems rely on inputted commands to access their functions. As a result, one must provide a command or question (a prompt) to access the appropriate function.

CHAT GPT -> chat.openai.com CAPABILITIES

1. Answer Questions* Natural Language Understanding/Engaging in Conversations
2. Language Translation
3. Text Generation
4. Summarization
5. Analysis
6. Mathematics
7. Coding Assistance
8. Recommendations of Media

9. Learning Assistance
10. Weather and Location Information
11. Conversions
12. Calendar and Scheduling
13. Historical Information
14. Health and Medical Information
15. General Knowledge

CHAT GPT as limited access to training texts which may provide limitations to its knowledge. Likewise, CHAT GPT training texts include Wikipedia which can limit the reliability of the information that it provides.

That said, CHAT GPT and other AI can help student writers in the following ways:

- +As Generative Tools (To Fill Content Gaps)
- +To Provide Feedback/To Peer Review
- +To Proofread and To Edit Text

Additional AI Applications which provide similar tools:

- Google Gemini (for feedback)
- Goblin Tools (for tone shifting)
- Chat GPT (for proofreading)