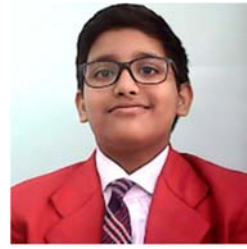# ARTIFICIAL INTELLIGENCE

-Aaron Thomas Jacob(VIII-K)

Artificial intelligence (AI) is the simulation of human intelligence processes by machines, especially computer systems. These processes include learning, reasoning and self-correction. AI can be categorized as either weak or strong. Weak AI is designed and trained for a particular task. Strong AI is an AI system with generalized human cognitive abilities. When presented with an unfamiliar task, a strong AI system is able to find a solution without human intervention. Some industry experts believe that the term artificial intelligence is too closely linked to popular culture, causing the general public to have unrealistic fears about artificial intelligence and improbable expectations about how it will change the workplace and life in general. Researchers and marketers hope the label augmented intelligence, which has a more neutral connotation, will help people understand that AI will simply improve products and services, not replace the humans that use them.

Types of artificial intelligence: Arend Hintze, an assistant professor of integrative biology and computer science and engineering at Michigan State University, categorizes AI into four types, from the kind of AI systems that exist today to sentient systems, which do not yet exist. His categories are as follows:

- **Type 1: Reactive machines:** It has no memory and cannot use past experiences to inform future ones. It analyzes it's own and it's opponents possible moves and chooses the most strategic move in a chess game

- **Type 2: Limited memory:** These AI systems can use past experiences to inform future decisions.

- **Type 3: Theory of mind:** The Psychological term refers to the understanding that others have their own beliefs, desires and intensions that impact the decisions they make. This kind of AI does not yet exist.

- **Type 4: Self Awareness:** In this category, AI systems have a sense of self consciousness. This type of AI does not yet exist.

    AI is also used for different types of Technologies like, Automation, Machine vision; Machine learning, Natural language processing etc.

    "Everything we love about civilization is a product of intelligence, so amplifying our human intelligence with artificial intelligence has the potential of helping civilization flourish like never before – as long as we manage to keep the technology beneficial." - **Max Tegmark**