Artificial intelligence (AI) is the simulation of human intelligence in robots that have been trained to think and act like humans. The phrase can also refer to any machine that demonstrates human-like characteristics like learning and problem-solving.

Example:

Artificial intelligence may possess aspects of human intellect such as speech recognition, decision-making, and visual perception.

Purpose:

AI's purpose is to create software that can reason and explain based on input. AI will allow humans to engage with software in a human-like manner and provide decision help for specialised activities, but it will never be a replacement for humans.

Artificial intelligence is influencing the future of almost every sector and every person on the planet. Artificial intelligence has acted as the driving force behind developing technologies such as big data, robotics, and the Internet of Things, and it will continue to do so for the foreseeable future.

Voice assistants, picture recognition for face unlocking in mobile phones, and machine learning-based financial fraud detection are all examples of AI software that people use every day. AI software is frequently as simple as downloading AI-capable software from an online store and does not require any additional hardware.

AI is significant because it allows software to perform human capabilities such as thinking, reasoning, planning, communication, and perception more effectively, efficiently, and at a lower cost.

Artificial intelligence is now being used for a variety of good causes, including assisting us in making better medical diagnoses, discovering new ways to cure cancer, and making our automobiles safer. Unfortunately, as AI's capabilities grow, it will increasingly be exploited for harmful or malignant reasons.

Doctors and hospitals will be able to better evaluate data and tailor health care to each patient's genes, surroundings, and lifestyle thanks to AI algorithms. AI will drive the personalised medicine revolution, from diagnosing brain tumours to determining which cancer treatment would work best for each individual.