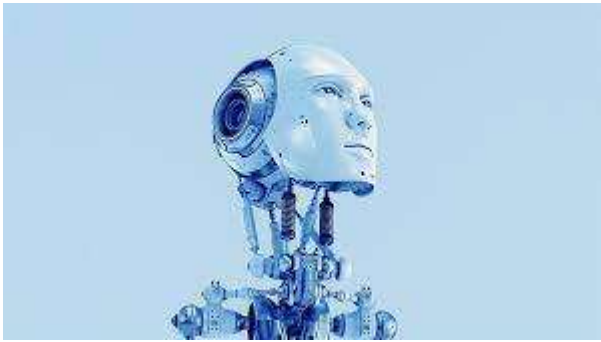# LATEST ADVANCEMNETS IN THE FIELD OF AI

Artificial Intelligence is the **perceiving, synthesizing** and inferring information which are demonstrated by various machines. It is concerned with **building smart machines** that are capable of performing various tasks that typically require human intelligence. AI is almost an **humanities discipline**.

As the world becomes increasingly digital, the field of artificial intelligence (AI) continues to grow and evolve at an **unprecedented** pace. AI is transforming the way we humans live and work. Nowadays, we are surrounded by AI in each and every field and it can be exclaimed that **AI has become a part of our daily life**. AI continues to shape our life. Most of our society is inspired and imapacted by AI.

In *Healthcare* field, AI along with **IoMT** (Internet of Medical things) in consumer health appliactions are well developing. Artificial Intelligence is used for early detection of a disease such as cancer. According to the **American Cancer Society**, AI is generating results 30 times faster and with **99% accuracy** as compared to mammograms. AI helps in healthcare field like **Early detection**, **Diagnosis**, **Treatment**, **Research** and **Decision making**.

Agriculture: Farming has always been a labor- intensive undertaking and itnstill involves considerable human intervention. For starters, in addition to monitoring sunlight, AI systems involve "Computer Vision" to see plant health and identify pests. Many factors like temperature, soil,watering levels can be determined by using **sensors**. Other factors are: Early detection of pests, diseases and weeds by using drones and sensors. AI will help farmers by telling which crop production will be most profitable. Technologies used are **data analytics, sensors, IoT, Machine learning**.

Chatbots: The most trending and hot topics in chatbots nowadays are ChatGPT and Google's Bard. These things evolved significantly in recent months and years. These chatbots help humans in many ways. Like, to solve a problem or to develop a website or generate a code in minutes. ChatGPT is "**OpenAI's large language**" model and produces a **human like responses**. These chatbots are capable of doing much

more things compose music, teleplays, fairy tales and student essays, answer test questions, translate and summarize text. These bots usually tries not to give any sort of a harmful or deceitful responses.

Speech Recognition: It is an important subset of Artificial Intelligence that converst human speech into a useful and understandable format by computers. Speech recognition is nothing but the ability of a machine or a program to identify words or phrases spoken aloud and convert them into readable text format. It reduces human effort in a huge way as a person just **dictates** the words or the information to be written which in turn **increases the productivity**.

The best exmaple of speech recognition is **Siri of iPhone** and Alexa.

These are few of the fields listed above in which Artificial intelligence is trending.

AI is one part of the life that always astonishes humans with new ideas, innovations and various new products. AI can make us more smarter than we are and always try and pose a new challenge in front of us to tackle. AI makes our life more **easier, efficient and more personalized**. This is not the end of AI, **this is just the beginning and there is much more to come**.