

# DISCIPLINES OF ARTIFICIAL INTELLIGENCE

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1. Philosophy
2. Mathematics
3. Economics
4. Neuroscience
5. Psychology
6. Computer science
7. Control theory and cybernetics
8. Linguistic
9. Big data

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## **Philosophy:**

It answers the important questions

Ex:

1. Can I machine act intelligently ?
2. Can I machine act like an human being?
3. Will it able to solve all the human problems?

Our computer is like a human, such as think , define and a particular intelligence and where it should work

## **Mathematics**

It is used to write logical algorithm for problem solving

## **Neuroscience:**

How a computer acts and response according to the situation.

Ex: showing emotions, smiling, sadness, politeness

## **Psychology:**

It is a process of understanding thinking of a human and animals and understanding their thoughts.

Ex: when you are listening a music how your brain works in that particular moment how you act that moment.

### **Computer science:**

Programmer write a code to achieve the artificial intelligence.

### **Control theory and cybernetics:**

It's a scientific study of how human interacts with each other

Ex: actions, expressions and observations between two people

### **Linguistic:**

Communication and language translation

### **Big data:**

It is helpful in storing the data for processing and developing the artificial intelligence.

We will use the same code in many more activities and parallelly our machine will gets lot of intelligence.

Ex: Gmail

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### **Other Popular Applications of AI:**

#### **Transportation: Driver less cars**

#### **Video games: chess, Poker**

Machine has learned the all possible moves in the game and it try to apply when you try to play with it.

#### **Healthcare:**

Ex: Fast diagnosis reports, it will help doctor to take the decision fast and start an appropriate treatment

Treatment under Robotic surgery

**Finance:** Automatic chatbots, algorithm training, share prices prediction

#### **Expert systems:**

**Data security:** To control cyberattacks to make any companies data more secure

Ex: AEG bot , AI2 software's

#### **computer vision**

Image processing: Recognizing the people's emotions, names through computer

**speech recognition:** extracting the meaning of the sentence by human and translating to other languages

**Robotics:** Erica and Sophia --> these are humanoids and they can talk and behave like a human

**E-commerce:** recommending the product based on the search history

Chatbots in websites