

YUVA AI FOR ALL : India.AI

Artificial Intelligence :

Artificial Intelligence is a GPT or General Purpose Technology.

In which Computer or machine deserve to make decision, Thinking and understanding like a Humans.

Artificial Intelligence → Teaching Computers to Learn patterns about the data → Make decision like a Humans.

Artificial Intelligence is a field of Computer Science.

Intelligence is the ability to learn from experience and get Better.

Intelligence → Learning + Adapting + Improving

Follow the Steps for learning about AI.

1. AI Learning Process.

2. AI Working Process.

3. Three ways of AI Learn.

AI Learning Process :

1. Data → Firstly we provide data to Machine or Computer as a example used to teach AI. Machine or Computer does not work without using The Data. Because **Data is fuel of AI.**
2. Training → Training is an essential learning steps where AI Studies the Data to find out the Patterns. During the process, computer adjusts its Internal Setting according to the Patterns of Data, So that AI can be Deserve to declaration the difference between Data.
3. Model → A Model is the Intelligence Created after training is finished. It represents how AI has learned from the Pattern in the Data.
4. Inference → Inference means having uses of trained model to make predict on new data.
Example - Giving the AI a new photo and asking whether it is **Cat or Dog.**

AI Working Process :-

1. Machine Learning (ML)
2. Deep Learning (DL)
3. Generative AI (Gen AI)

1. Under working process of AI, we consider about machine learning. ML is a part of AI where the computers or machine learn from Data that what human wants according to their essential Services and Desires. After Analysis and learning from the Data Computer our machine create a model.

Example :— YouTube video Recommendations on Contents.

2. Then now we consider about Deep learning which is a part of machine learning In which machine works on the big and complex data and uses the multilayer neural Networks (As a Structure of humans Brain) means Deep learning is inspired by humans Brain.

3. Generative AI is a Branch of AI that Create new content from analyzing our recognizing the Patterns, Structures and relationship from large amount of data.

Then it's generate Human-like outputs.

Example → Chatgpt, Gemini,
Claude, Perplexity.

Three ways of AI Learn :-

1. Supervised Learning → Under the Supervised learning AI Learns from data that is already given with correct answer.

AI Learns from data that has been clearly labeled with the correct answer.

Example → Input → Labeled
Emails → Spam / Not Spam
Voice Commands (Alexa) → Correct Text
Your Mobile face lock → Undock

2. Unsupervised Learning → In unsupervised Learning AI finds the Patterns in Data without any labeled the correct answer.

Example → As Shopping website, AI learn to make group as the basis of product's similarities and product Pattern.

Ex → Amazon / Flipkart
Spotify / Mobile phone gallery

other example of unsupervised learning

आप You Tube / Instagram पर जो जो देखते हो यद्यों
Content or Video or Reels

पर AI यह सीखता है कि इस तरह के
video कैसे हैं उनको साथ में दिखाना
चाहिए ॥

AI प्रदृष्ट नहीं लाना तो विडियो का नाम बता
ई वह सिध्ध Patterns और Relationship
सीखता है ऐसे जो AI का Data और
विडियो के बहुत पर Patterns और
Relationship का आधार पर Similar video or
Reel को साथ Group लगाता है।

3. Reinforcement Learning → In Reinforcement Learning

AI Learns through play a video game
It's get reward for wrong move
and receiving rewards for good action.
So that AI Can improve itself over time.

Example :— Autonomous Car (Self-driving car)

What is Chatgpt : -

Chatgpt is a Generative model of AI
That is Generate Human like answers.

Chat + Generative + Pure-Trained + Transformer

↓
Conversation
with A.I.

↓
It's Trained earlier
using a large
amount of data.

Model can create new
Content. Ex → Pictures,
Text, music etc.

↓
Transformer is
Special A.I

Model. That is under-
Stand the tone of
question and given the
Correct answer as a
Human like tone.

Note — Your question Depends on written
Prompts whom you want to ask
from chatgpt.

★ How to prompt AI Effectively : -

A prompt is an instruction you give to
AI model (chatgpt, gemini etc.) telling
it what you want to do. It can be a
question, task or any input Text.
Prompt engineering means It is art

of writing those instruction. After creating a clear and good prompt. You guide the AI to provide more accurate and useful answer.

Uses of Craft Method:—

The Craft method is a prompt writing technique used to get better and more accurate answers from AI.

| Letter | Meaning | Explanation |
|--------|---------------------|------------------------------------|
| C | Context (स्थिति) | Situation of the task |
| R | Role (कार्यालय) | Role the AI Should Act as |
| A | Action (कार्य) | what Should AI Do. |
| F | Format (प्रारूप) | How the answer Should be presented |
| T | Tone (शब्दली) | Style or Language of the response |

1. Example : Business

Craft Prompt —

Role :— Act as a Business consultant.

Context :— I am Starting a small Stationery Shop.

Action :— Suggest marketing Strategies.

Format :— Present the answer in bullet points with headings.

Tone :— Use a professional tone.

2. Example : Technology/AI

Role :— Act as an AI expert.

Context :— Provide details about Artificial for beginners. (What Should be You want from AI)

Action :— Explain with real life examples.
(What do you want to do with AI)

Format :— Present in Short paragraphs

Tone :— Use an English language with formal Tone.

Ethics in Artificial intelligence (AI) :-

AI Ethics :— AI Ethics refers to the principles, values and guidelines that govern the design, development and use of Artificial Intelligence System to ensure they benefit humanity and do not cause harm.

It represents the guideline which is used to control the use, design and developing of AI System So that They benefit for human.

Why ethics in AI is important:-

Ethics in AI is important because

1. Misuse of personal Data without ethics may be possible.
2. Decisions may be wrong.
3. Misuse of Human rights may be possible.

Principles of AI Ethics :—

Principles of AI Ethics → F.A.S.T

1. Fairness — AI Should behave with (सम्मान) human equally not Should be unfair to any person as a gender, Caste and religion etc.

2. Accountability (उत्तरदायिता) — Accountability In AI Ethics

means Humans are responsible for the decisions and actions whom has been taken by AI Systems not machine itself. So, the responsibility always will be with The AI Developers, The Company using AI or The people Controlling the AI System.

3. Safety and Privacy (सुरक्षा और गोपनीयता)

— AI Should protect personal data with Safety So that No one could not be misuse the data.

4. Transparency (पारदर्शिता) — In AI Ethics, Human Should understand clearly how AI makes decisions and how AI works using the data So that Humans can be believe on AI Systems.

Ethical Issues with AI :—

Sometimes AI gives wrong answer of human questions for any reason of negligence. In a Short, AI responses may include mistakes.

1. AI may behave unfairly with any one due to biased or incomplete data.
2. AI can misuse personal data without the permission of user.
3. Many AI Systems do not clearly show how or why they make decision.
4. When AI makes mistake, Then it is difficult to decide who is responsible for the error.
5. AI can replace human jobs, which may causes unemployment.
6. AI can be misused for hacking, cyber crime and other harmful activities.

Key friends in AI

Finally we consider about the key friends in AI whom should be known by all users of AI.

1. Natural Language is the new coding:-

You don't need to write code to talk with computer. You can talk to AI in simple language to do tasks.

2. AI is the New UI (User interface):-

Earlier, we used buttons, menus and

Screens to work. Now, AI itself has become the interface and we can talk to it directly.

3. Agents are the New Platform : - Now, AI does not only give answers. It has become agents that can perform tasks on their own.

4. AI is Now your colleague (teammate) : -

AI is no longer just a tool. It works like a colleague in the office and helps us in our work.

5. Chat is the new Search : - Earlier, we searched by typing keywords on google. Now we ask questions in chat and get full answer.

6. AI Creates the new customer : - AI is now involved in buying decisions, giving suggestions and helping in decision making.

Earlier customer buys goods thinking by own himself but now AI helps the customer as a new customer.
Example : - Amazon, Flipkart.