

**Course
&
Test Series**

Introduction to Artificial Intelligence

Module 2 - Generative AI

-  **CBSE**
-  **ICSE**
-  **NTSE**
-  **Banking & Insurance**
-  **Central Govt. Service**
-  **State Govt. Services**
-  **LAW Entrance**
-  **MBA Entrance**
-  **Railways & Metro Services**
- ...many more**
- abhyasonline.in**

Generative AI

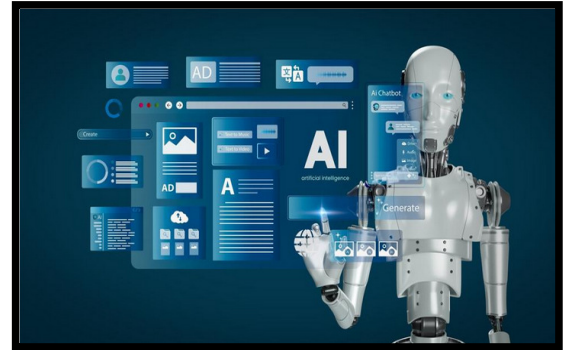
It means a type of computer technology that can create new things, like pictures, music, stories, or even videos, all by itself. It learns from examples and then makes something similar but original.

For example:

- If you show it lots of pictures of cats, it can create a new picture that looks like a cat, even if that cat doesn't really exist.

- If you give it a topic, it can write an essay or a poem about it.

Generative AI is like a smart assistant that has learned from a lot of data (like books, images, or songs) and can now use that learning to make something new. It's called "generative" because it *generates* or *creates* content.



Difference between Traditional AI and Generative AI

Traditional AI

Traditional AI is mainly used to analyze data, follow rules, and make decisions. It learns from information and helps solve problems or answer questions.

- For example, a traditional AI can tell whether an email is spam, recognize faces in a photo, or help a robot move in the right direction.
- It works based on logic and patterns, and it's very good at doing tasks that have clear right or wrong answers.

Generative AI

Generative AI is made to create new things. It doesn't just follow rules—it learns from a lot of examples, like pictures, stories, or music, and then uses that learning to make something original.

- For example, it can write a poem, draw a picture, make a video, or compose a song.
- Generative AI tools like ChatGPT can answer questions, write essays, or even pretend to be a character in a story.
- Tools like DALL·E can turn words into pictures. This type of AI is called "generative" because it generates (or creates) new content that didn't exist before.

Introduction to Artificial Intelligence

Application of Generative Artificial Intelligence

Text Generation

Generative AI can write text just like a human. It learns from books, websites, and articles and then uses that knowledge to create new content. It can write stories, poems, essays, emails, and even answer questions. Tools like ChatGPT are good examples. This helps students, writers, teachers, and businesses save time and get ideas.

1. ChatGPT

ChatGPT is an AI chatbot developed by OpenAI. It uses a powerful language model called GPT (Generative Pre-trained Transformer) to understand and generate human-like text. You can chat with it like you would with a person, and it can help with a wide range of tasks such as:

- Answering questions
- Explaining complex topics
- Writing essays, emails, or code
- Translating languages

How to Register for ChatGPT

Open the website

- <https://chat.openai.com>

Click "Sign Up"

- You will see a button that says Sign Up. Click it.

Choose how to sign up

- Your email
- Your Google account (like Gmail)
- Your Apple ID
- Your Microsoft account

Make a password

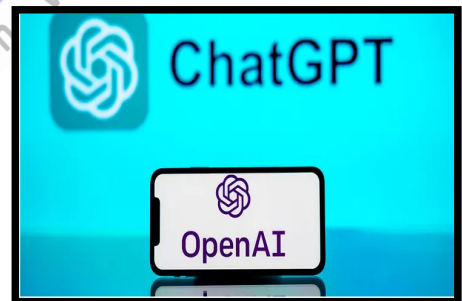
- If you use email, type your email and create a new password

Check your email

- Open your email and click on the link you get to verify.

Enter your phone number

- Type your mobile number. You will get a code on SMS.
- Type that code to verify.



CBSE

ICSE

NTSE

Banking & Insurance

Central Govt. Service

State Govt. Services

LAW Entrance

MBA Entrance

Railways & Metro Services

...many more

abhyasonline.in

Course
&
Test Series

Introduction to Artificial Intelligence

Done! You are registered!

- Now you can start chatting with ChatGPT.

Assignment/Task: Ask ChatGPT: What are the 10 best qualities a 12th class student can mention in an interview?

2. Gemini AI

Gemini AI is a smart computer program made by Google that can understand and create text, images, and more. It's like a super advanced helper you can talk to, ask questions, or get help with many tasks.



Easy Steps to Use Google Gemini AI

Open the Gemini website

- Go to: <https://gemini.google.com>
- On your phone, open the Google app (Android or iPhone)

Sign in with your Google account

- Use your Gmail (Google account) to sign in
- You must be 18 years or older
- If needed, Google may ask for age proof

Accept the rules

- Read and click "I Agree" to the Terms & Conditions

Start using Gemini

- Now you can type your question and Gemini will reply
- You can also ask using your voice or even add picture

CBSE

ICSE

NTSE

Banking & Insurance

Central Govt. Service

State Govt. Services

LAW Entrance

MBA Entrance

Railways & Metro Services

...many more

abhyasonline.in



**Course
&
Test Series**

Introduction to Artificial Intelligence

 **CBSE**

 **ICSE**

 **NTSE**

 **Banking &
Insurance**

 **Central Govt.
Service**

 **State Govt.
Services**

 **LAW
Entrance**

 **MBA
Entrance**

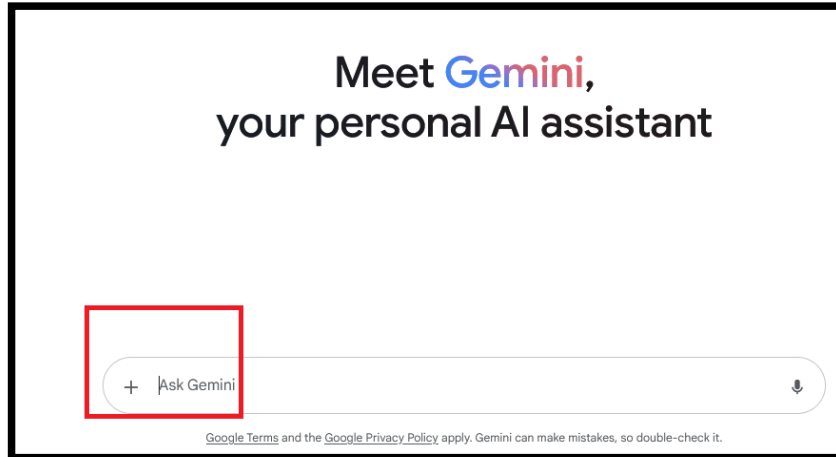
 **Railways & Metro
Services**

...many more

abhyasonline.in

If you want the advanced version (more powerful), you can:

- Buy Gemini Advanced by paying ₹1,950/month
- Sometimes, Google gives a free trial for a few months.



Assignment / Task: Create an Animated Image For School

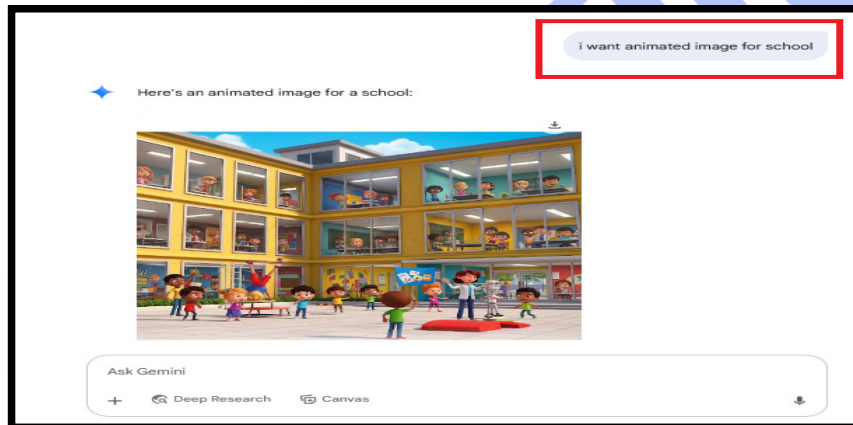


Image Generation

Generative AI can also create pictures from words. You just type what you want to see—like “a cat wearing sunglasses on a beach”—and the AI makes that picture for you. Tools like DALL·E or Midjourney can do this. This is very useful for artists, designers, and people who need images for social media, books, or websites.

DALL·E is an artificial intelligence (AI) tool created by OpenAI that can turn text into images. This means you can type a sentence like “a dragon flying over a city at night” and DALL·E will create a picture that shows exactly that. It’s like telling a robot what to draw using only your words—and it actually does it.

**Course
&
Test Series**

Introduction to Artificial Intelligence

CBSE

Example-the Ghibli trend is one of the best real-world examples of how DALL-E (especially through ChatGPT's image generation tools) can replicate a specific art style with stunning results.

ICSE

Assignment / Task: Create a picnic scene using Dall - E tool

NTSE

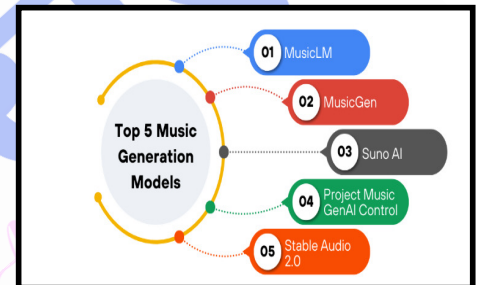


Banking & Insurance

Music Generation

AI can also compose music. It learns how music works by listening to lots of songs. Then it can create new music in different styles, like pop, classical, or jazz. Musicians and creators can use AI to make background music for videos, games, or even full songs. It's like having a digital music partner.

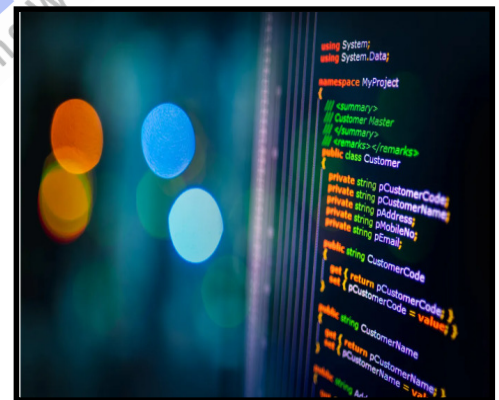
Central Govt. Service



State Govt. Services

Coding / Code Generation

Generative AI is also helpful for writing computer code. It can understand what a programmer wants and then generate the right code. For example, you can say "make a calculator in Python," and the AI will write the code for it. This is useful for students learning to code or developers who want to save time. Tools like GitHub Copilot and ChatGPT are commonly used for this.



LAW Entrance

MBA Entrance

Railways & Metro Services

...many more

abhyasonline.in