Artificial intelligence:

* Artificial intelligence (AI) refers to the simulation of human intelligence in machines, especially computer systems, that are designed to think, learn, and make decisions like humans. AI systems can perform tasks such as problem-solving, decision-making, and learning from experience, often using large amounts of data and special rules called algorithms.

Various Generative AI models:

* GANs

Contains 2 network:

* Generator: this is able to generate data which is completely new/or realistic data
* Discriminator: distinguish the data is real or not

VAE

Diffusion model

Introduction of large language models:

Gpt -4.0

Gemini

Liama 3

All these are pretrained model ,that means these are already trained with large amount of data that is available in the internet (entirely).