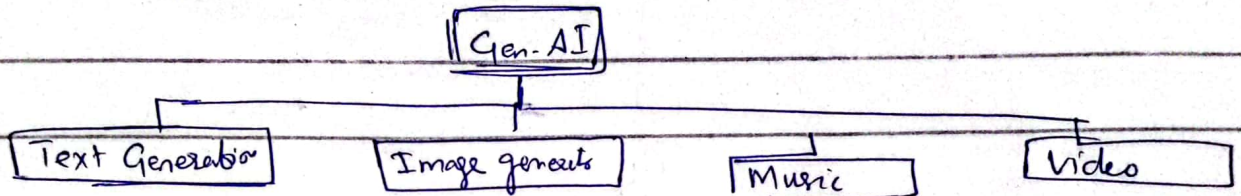


lect #4

- revision of previous lectures [lect 1, lect 2, lect 3]

Generative AI

- ↳ generative models
- initial seed ^(input) to start
- gives output

LLM & diffusion Model

- **LLM** (NLP domain)

[Text]

↓
Large language model

- build on core of neural network - GPT

- very large (billion of parameters)

generative pre-trained Transformer

(How LLM works).

In general:

- prompt
- tokenization (process of breaking down text into smaller units called tokens)

• vocabulary (each model have its own vocabulary)

• chance calculate (probability)

مثلاً: من خلال الـ vocabulary، نحسب احتمال (chance calculate) ظهور كلمة معينة.

- The more better sequence of words the better output.
(Tokenization)

• ایک حد سے زیادہ وہ Token اور اس میں
رہتے

• Context Window: ایک نام پر تو Token 2 کر وہ understand کرے
-۲-

★ Prompt Engineering

Token cost:-

↳ costing model
estimation
+ disclaimers

Prompt Engineering:-

⇒ story of old man

[The mindset]

Anatomy of prompt

prompt refer to input / instruction

Parts of Good prompt

- ① Set Role (Simulate Persona)
- ② Task (describe task in detail)
- ③ Steps to complete task
- ④ Context / Constraints / Limitation
- ⑤ Specify the format output