

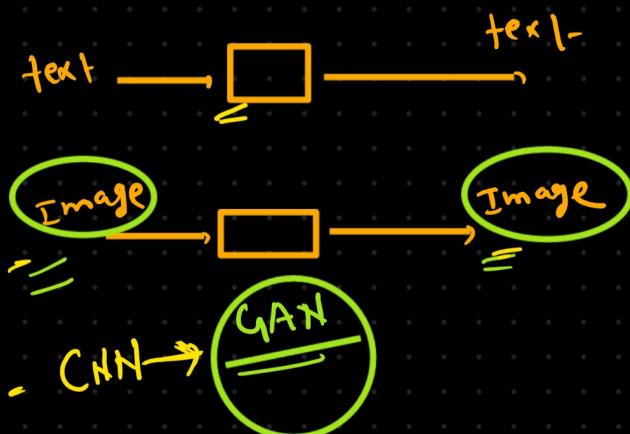
All the fundamentals (sequence of topics)

① GenAI intro \Rightarrow PPT

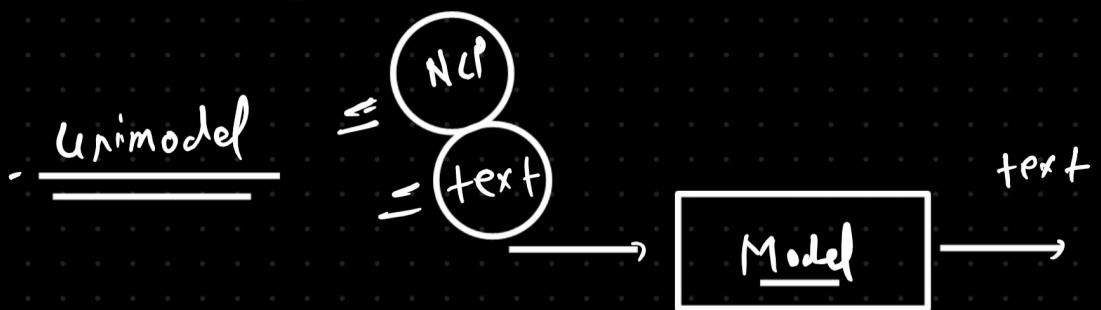
② text data

Unimodel

Multimodal



{ Vision specific }
{ audio specific }



NLP
text \Rightarrow usecase

RNN, LSTM, GRU

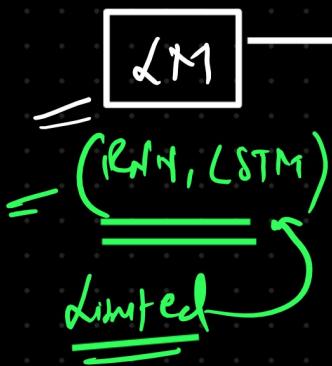
{ Language modelling }

- 1
- 2
- 3
- 4

Summarization =
classification =
translation =
generation =

Generation

Language modelling



Large Language modelling



NLP \Rightarrow text \Rightarrow

① text Preprocessing

② text Encoding

text embedding
(word, sentence)



Validation of embedding

③ Seq to Seq

one to many
many to many
many to one

\Rightarrow ④ RNN, LSTM, ECD with
- - - - - Attention

⑤ transformer

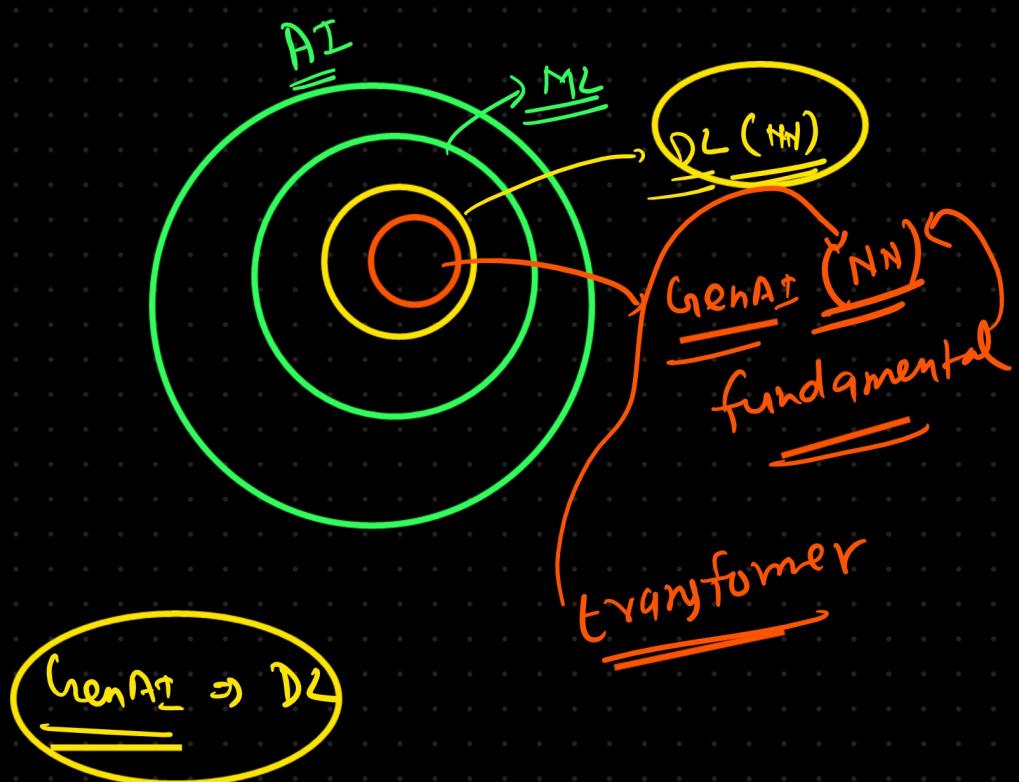
⑥ Transformer based Arch.

- 1 Bert
- 2 GPT
- 3 Llama
- 4 Mistral

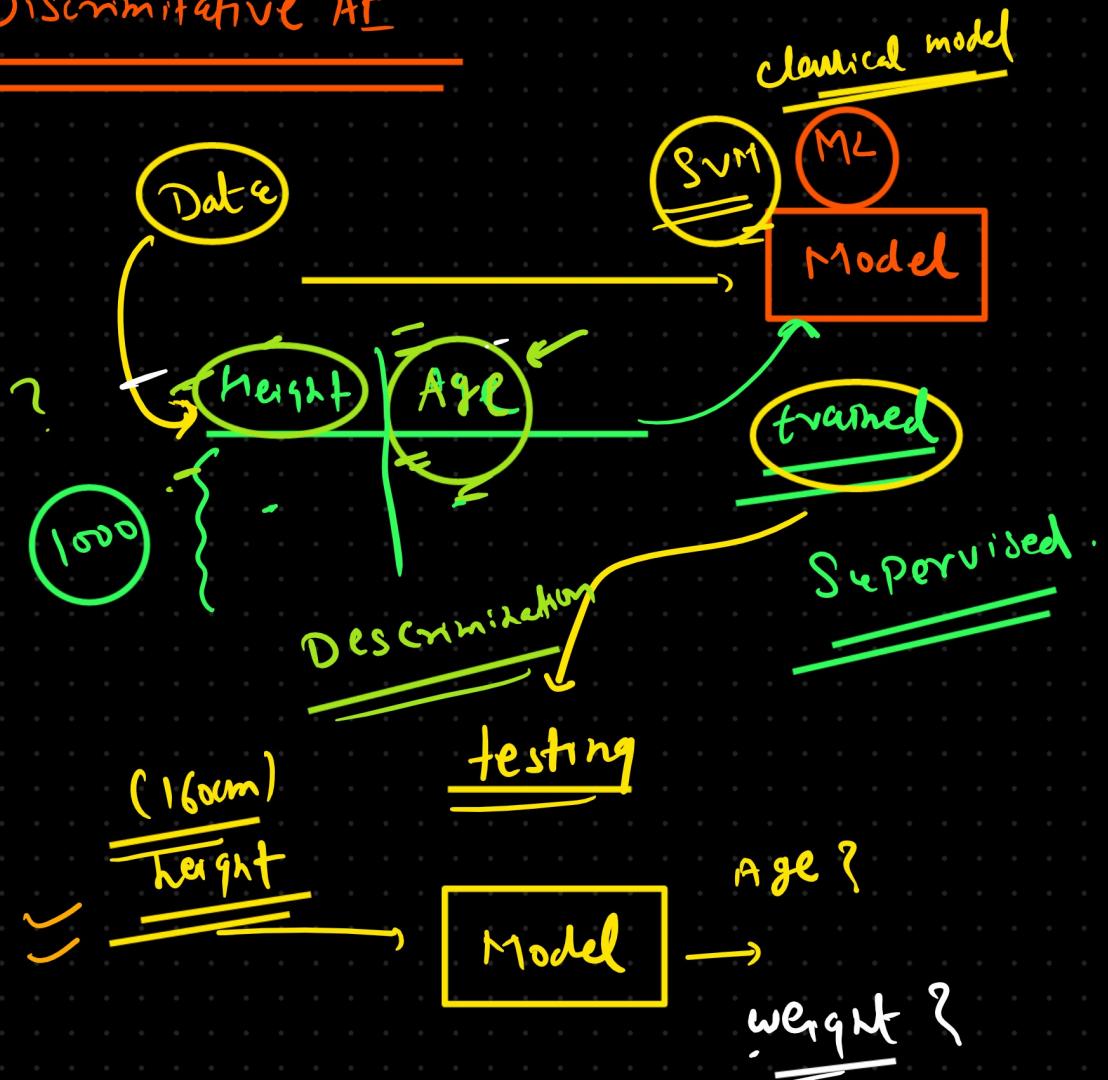
LM world

⑦ Hugging Face API

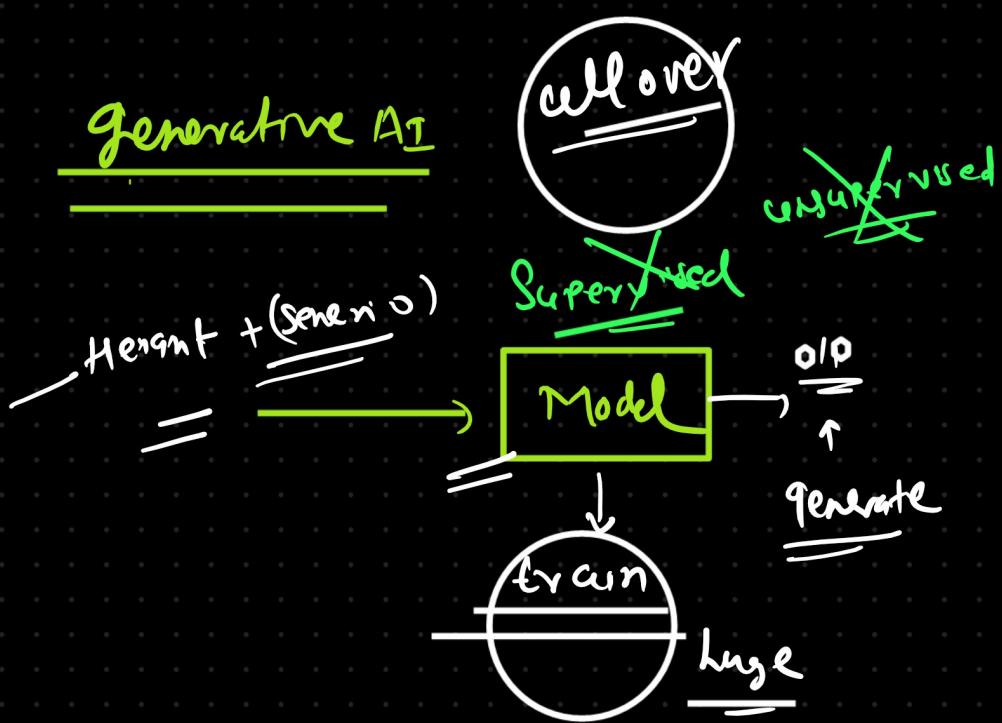
⑧ openAI & Claude AI



Discriminative AI



Generative AI



Input

generate a
poem

generate creative
a poem

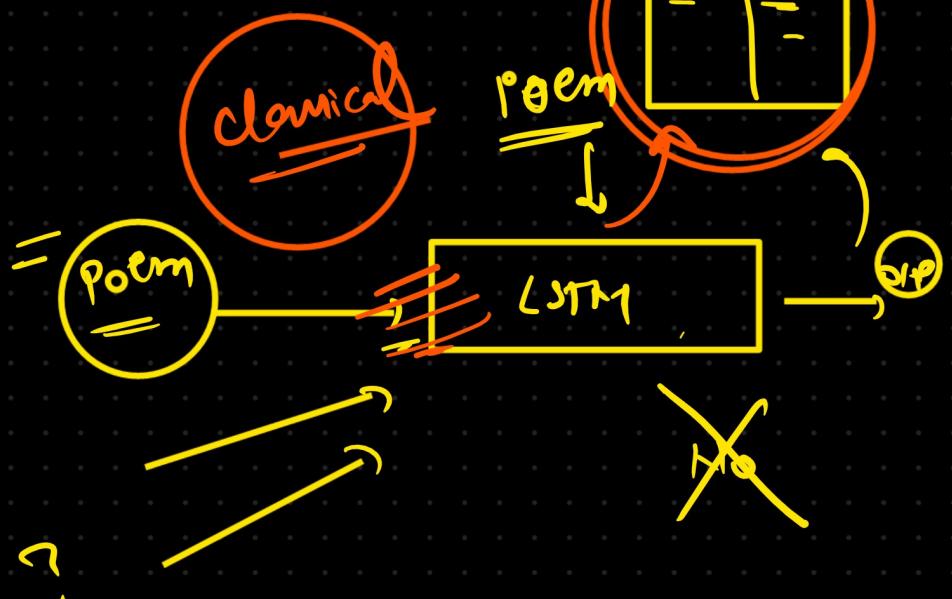
generate a poem which
never exit

Chatgpt

Output

→ op

→ op



LxM \Rightarrow Large language model

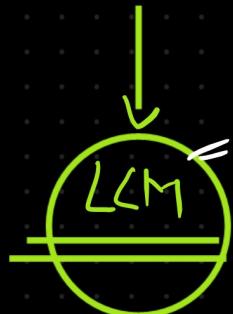
big data

↳ summarizing
generation
classification
translation

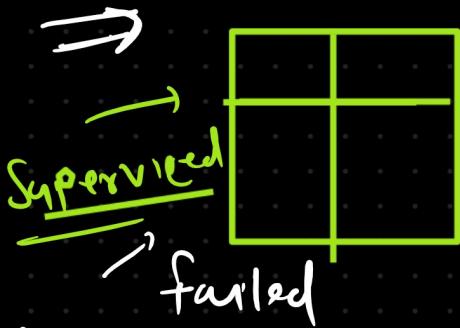
training \Rightarrow Internal - (structure, unstructure)

entire \Rightarrow ~~label~~

unlabelled



Classical ML

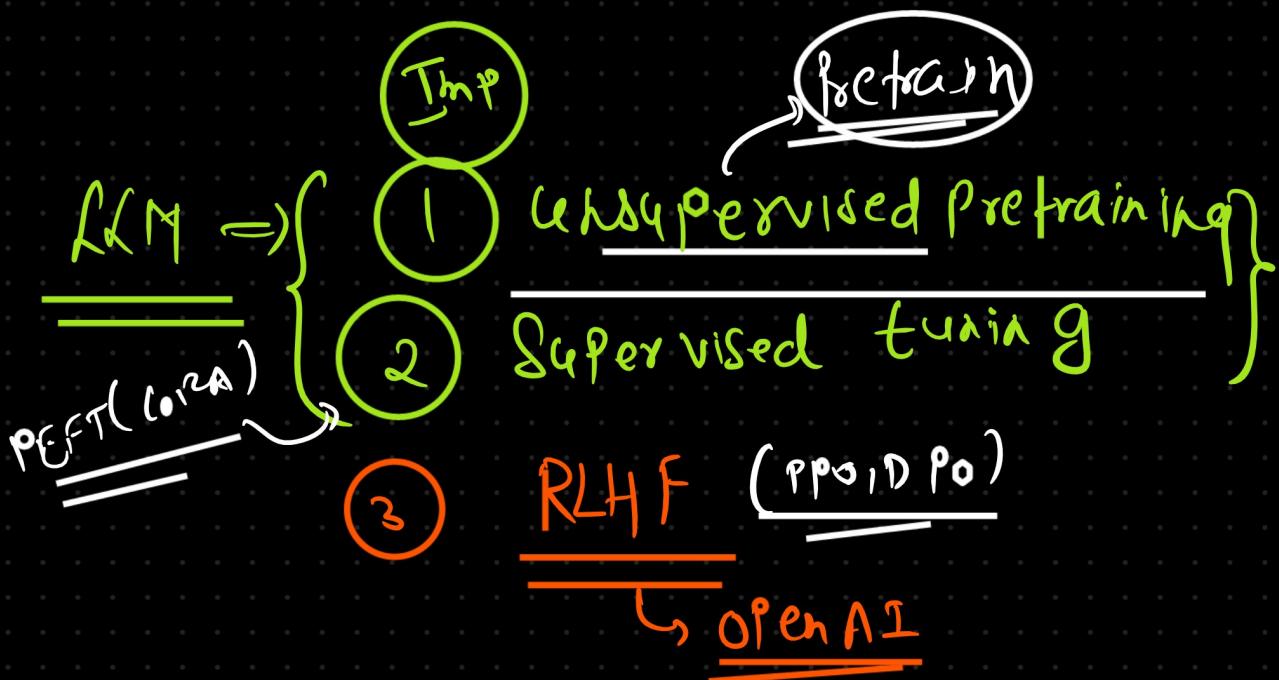
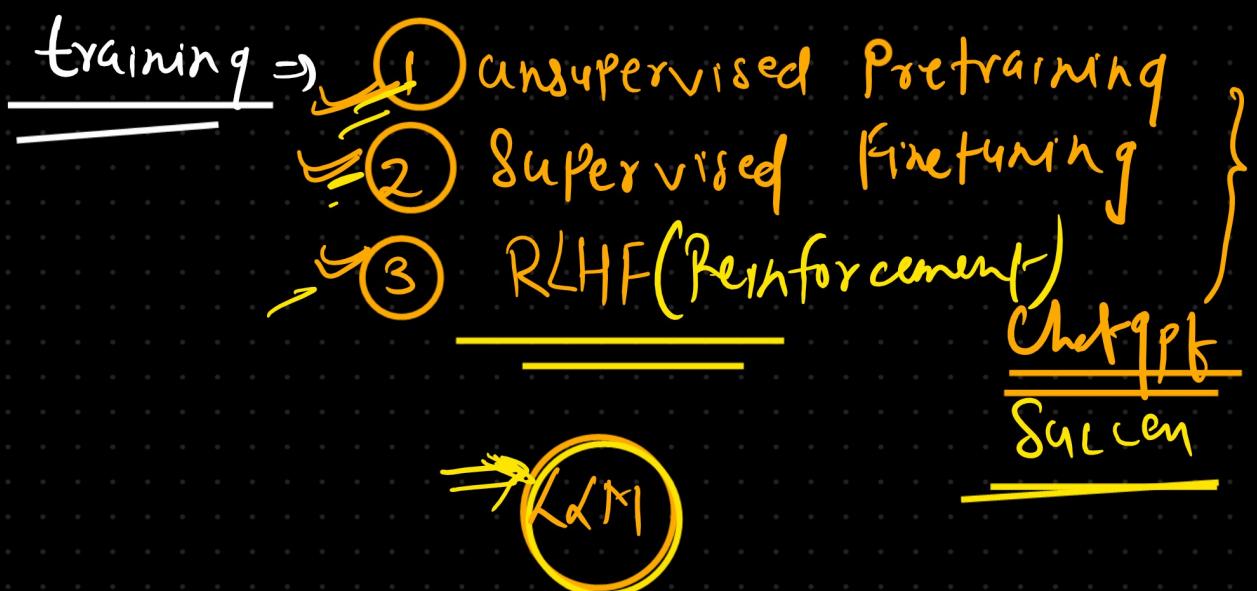


Unsupervised

Segment, group, cluster

label

Transformer + huge data \Rightarrow LLaM



GenAI

Agent

fundamental

finetune

RL