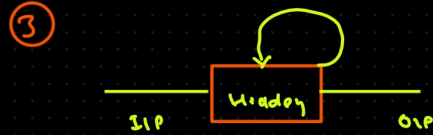


Deep Learning

- ① ANN
- ② CNN
- ③ RNN
- ④ RL
- ⑤ GAN



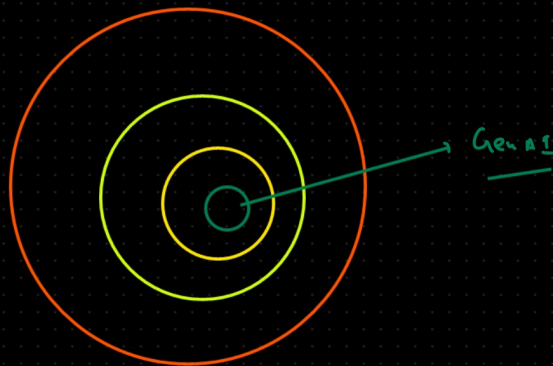
- ② Convolution + ANN



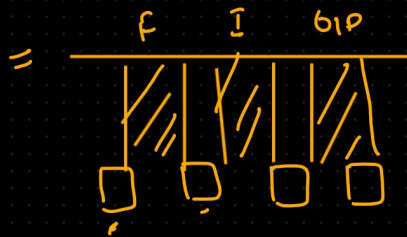
→ GenAI ⇒ Superset

- ① GAN
- ② LLM

- i) img to img generation ⇒ GAN
- ii) text to text gen ⇒ LLM
- iii) img to text gen ⇒ LLM
- iv) text to img gen ⇒ LLM



- ① RNN ⇒ Short-term memory
- ② LSTM ⇒ Short--Long
- ③ GRU ⇒ 2014



2015, 2019
=

Seq.

- ① one to one x
- ② one to many
- ③ many to one
- ④ many to many

RNN, LSTM, GRU

I/P → O/P

2017

