

Lect 14 # Hugging Face Pipelines

Pipeline (input \rightarrow preprocessing \rightarrow processing \rightarrow output)

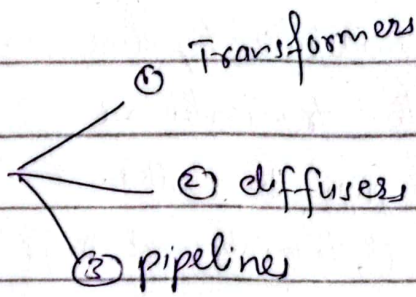
are objects that abstract most of the complex tasks

- offering a simple API dedicated to several tasks
- can adjust according to your need

example :- Chief Pizza

• use smartly

- way to use Hugging Face
can use state of the model in
few lines



\Rightarrow Practical Example

1) Text Summarization (summarize the text)

2) Name Entity Recognition

is a NLP task.

involves identifying & classifying named entity in text into predefined categories

`pipeline("ner")`

- "create & try to develop critical thinking"

PIL (Python Library for Images)

③ Image Classifier

(:: png format)

pickle (model :: " ")

Top 5 accuracy

④ Text-Image

:: stable diffusion

PyTorch, Tensor (matrixes)

G matrix calculation

CUDA concept
(GPU support)

CPU \Rightarrow 816 \Rightarrow cores (processors)

GPU \Rightarrow thousand of core (GPU)

Example of Math solve

matrix
PHD
(CPU)

⑤ Translation Pipeline
(which translates one
language to another
pipeline ("translation-engine for"))

CPU different language GPU
different language

Torch/PyTorch

(CUDA)

(Translates)

(works GPU)