## NOTEBOOK

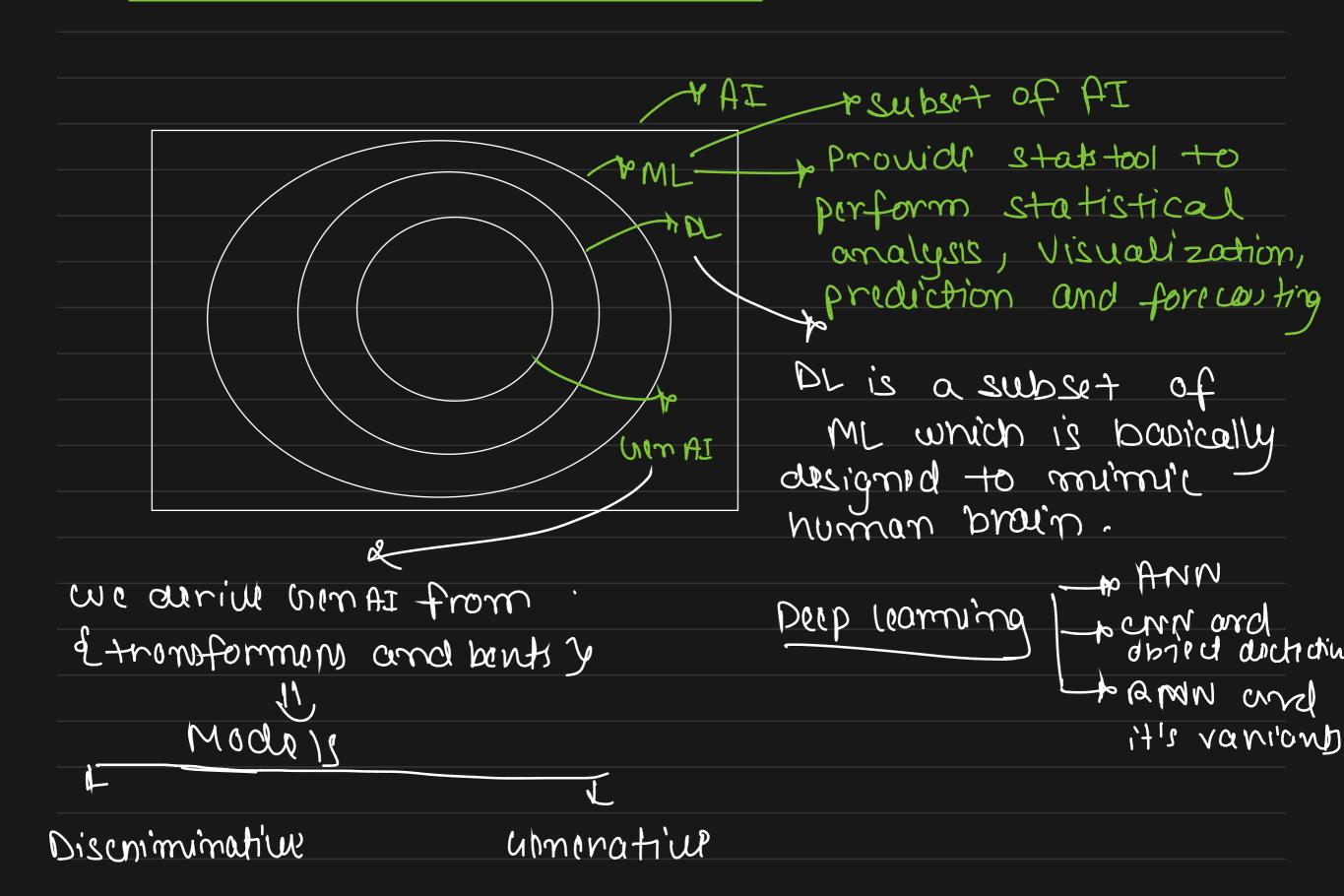
- Let's	aet	stonted	with	bremerative	AT

- what is AI: Well in very simple words it can be described as applications that can perform its own tak without human intervention.
- unat does an AI ingéniers clo?

Well the moun tasks of an Att engineer is to build tools and applications for intignating it in a centain software for it's scalibelity and use.

For example: Recommendation system in NOTFlip ....

## + AI V/S ML V/S DL V/S Generative AI



- Disunimentative models—t. used to perform tasks vive:

  Classification and prediction

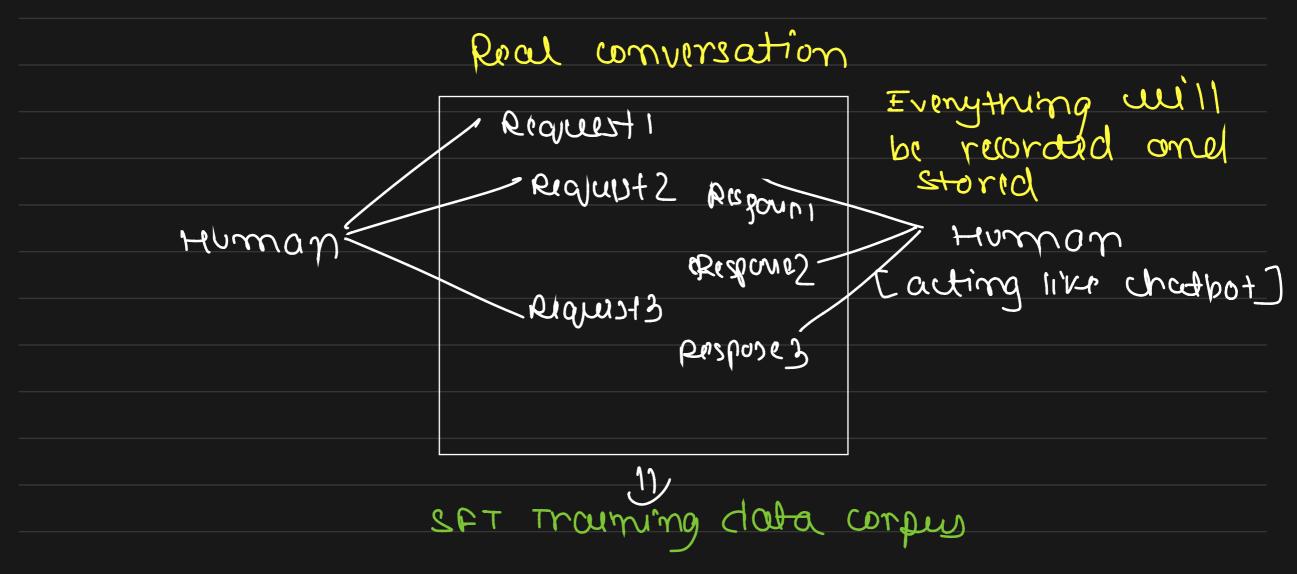
  Trained on labelled datasets.
- benerative models to concrate new data trained on huge datasets.
- In gen AI we learn two models: (1) LIM [Large Larguage models]
- to understanding brenerative models in simple way!
- rsupposi a person read all the books on the topic cat. Therefore he will be able to answer all the questions regarding cats.
- This is what a generative moder closs, it is trained on a large dataset l'information that it is able to provide all the queries a user onles. --

- TELLM: Bookally their models are trouved on longe languages and provide text output to wer.
- -PLIM: Prodictes text & Image ripponsos.
  - To some LLM models
    - opon AI, 11ama, comma, cloude3 - -
- Thise are some of the pre-trained moduls or foundation models that are available.
- Prefronted means france limb are already troumed on huge and large doctables.

```
Trivow the main question axis that how these pre-trained
 LLM moder are trained?
- Discussing now LLM moduls and trained
                   How chatgpt is trained?
  Internet data [website, Articles, Books etc.]
   Stage 1 - beneratiur
          pre-training
           1 Based hermodel
         superioused
                                     Overall
   Stag1 2-
          Fine Turning
                                      Structure
             1 Fine tented model
          Reinforcement
   stage3-
           Learning (4F)
      chotapt model
```

- Diving dup into each stages		
Stage 1 - Generatiur pre-trains	ing from transf	
		mis con
		be done
Internet to Transform!	n	
Huge input data		(1) Tramalation
	than the form	(1) Summari'zation
	<u> </u>	(in) tex+ compution
	chatbot	(v) Sentiment analys

## Stage2 - Supervised Fine Turling (SFT)



Request = convessation history Request Response = raining moder

Response = r Best response Request Response = rocket

Repust Response = rocket

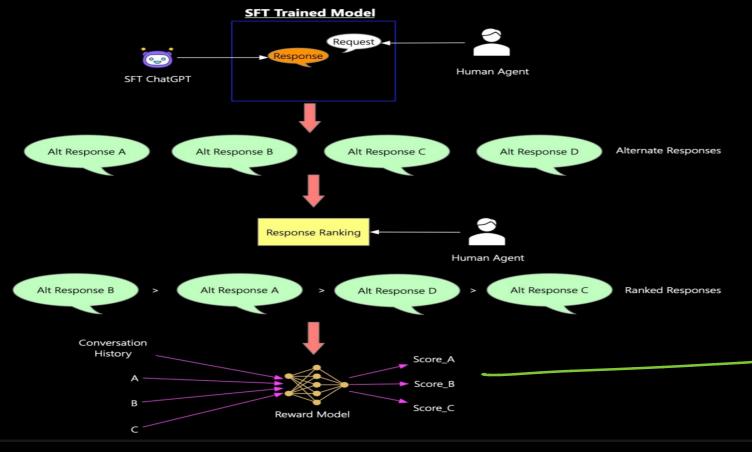
Request Response = rocket

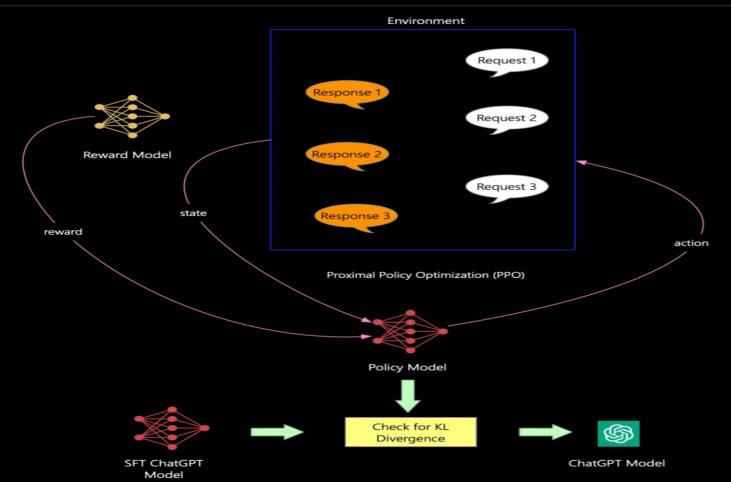
Repust Response = rocket

Request Response = rocket

Response = rocke

## Stage 3 - Reinforument larning through human fieldback





p Reward model
1's bosically or
bimany dowsification

