Fine Tunning.

1. Camparkion

(2). Inhat is Finetuning [why ? - (3) -

(3), When
$$8 \rightarrow ideal - 1$$

2)
3)

(f) + Challenges > Finelvup -(3)

(W) process - 56 >

10 - if Rinetone - While?

Fine tuning 3 Traing Jumpe

Tr

Propose = To convert generalised Model into

Speatic Model based on given

data.

Model - Not able to Answer as

Per your domain -sputic.

(2) Halludionated Answer

(3) Accuray 1

(4) Multilingipal.

3 = Challenges ?

(1). Handling Specifized Voubulary.

(2) > Fraining Time Reclue c Handwork

(3) · Overfilting - Dataset Small

(41) Data Driffing problem:

(6)- Balancing B/W Generalizal Modes to Spent's Models. Process: - 1) Selet one pre-Trained Model

2) Prepare Task specific Data

2) -> Adjust Model Paramaker.

4) -> Set Hyperameter

(5) -> Validate perfermence:
(6) -> Deploy / Use:

Data pry no cessing = Labely.

3 - Ovalitting, Ovarkooting, Slow Convergence.

(5) + Validation + Cooss Validation

Types >> 1) Full Fine tuning.

2) Feature Bare/ Feature Extration

3) PEFT (pasameler Efficient Fine Tuning)

(4) Task spuffe fine Tonning

O Full Fine Tunning -: Update all the layers of parameters.

(2) · Foature Extraction ;

* Coature Extraction ;

*

Rambig

Rowson

Low Roman

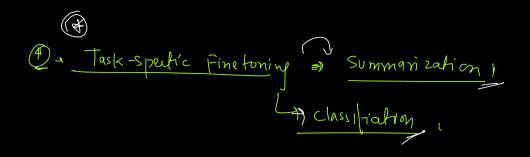
Low Roman

Lora - Low Roman

Solventian

Ovantian

Memon - Reduce (32-86)



- Finietone
 - 1) Model Trainling on spufic data 2) More data
- 2 Finetune

Onx Pre trained Model

- 37 fine tune -
- 6 Layer Frezze Trainp & parameter Updation

Antomation personal con few sputic daty 2) Ley duta

Pre touring.

Before Trainin long Model & Arditature

Instrutton Toaining.

dannert labell dalq

V

Fine Tunning

Transfer leaning.

D paramet updation

1) parameter sharing

2) Fine tuning Supervised Task (Data) REINFORMENT Learning with Human Fedback: Feed back

Evalution:

1) ROUGE -> Recall

2) BEUU ->

3) Perplaity ->

Trende: 1) Instrution Bared Finetoning.
(3) Larger Contex Window

& Integral with KAG (Acuray)

- tedniquee: 1) Adapters Frozen layor
 - 2) LORA
 - 3) Q-LURA

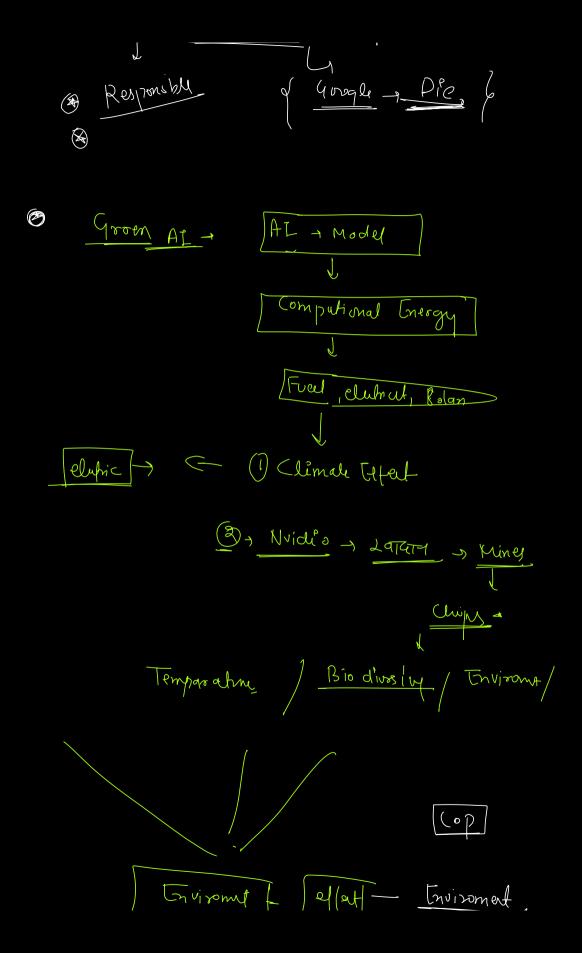
 - 9) Few short learning.
 5) 2000 Short learning

Responsible AI: AI 9t Should go AquiMt feu Homan. - Set Rule for AI - Responsible DI

* Homom, set aprule, Consititution

Jeram

(Ex , Homowork , Repeat





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