Task-2

Text clanifier -> Sentiment predict kre (tuc) we)

Lo ager confidence low how prediction Ka to Sys

Lo ager confidence low how prediction Ka to Sys

fall back kre

Lo ya auto. feedback Kare, ya dobasa feed back

Mange.

Self-Healing Clamification Dag Projects

ngCraph : (Crpu) - graphical Processing

- · Python lib haiso" Lun-based multiagent workflows

 Ko graph ke formme banane mai madad karti
 - o Node or Edge K through Complex design automation
 - (2) DACS (Directed Acyclic Creaph) 3 (No loop)

o workflow m use krte hai take data aus decision ex cleans acydic order me process ho.

3 Dishibert

- o you google ke BERT model ka Chinota or fast version hai (huggingfak. (a)
- o knowledge distillation se town notation taaki model Size aux injource time kam nojye.

acchai hai or susous it kumbyte hai

(9) LORA (Low-Rank Adaption)

- e ex efficient fine—turing technique hai sime bose model ke weights Freeze. Kanker Kuch chote "10w-rank" matrices ko train kiya data hai.
- · full flusing ice compare mai or on memory or time dono back satabai.
- lora se at hum bade model Kospeci fir tados Fin Kliga Jaldi astomiza kansıca hai.

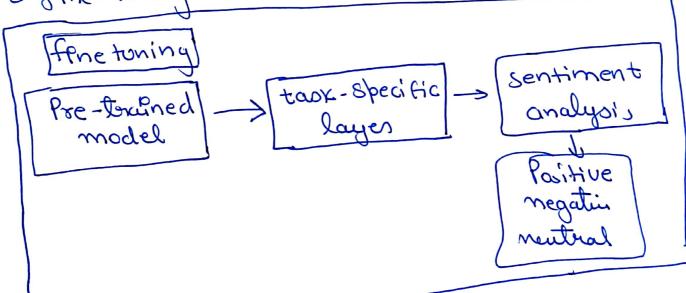
The tuning Distil BERT
Les the procen of fine-tuning Distilbert "for Sentiment analysis asing a dataset of sustament or any dataset runium.
BERT By goasle. (encoder-based transformer) BERT +NLP) More Pourse Co.
-> more fourer ful when we use NLPalong
ROBERT
BERT DRSHIBERT
- AUBERT
o used in Project like
Training Data
Teacher model (Cto be trained)
(Pre-brained) La Mobile Phone.
Predictions Prediction
(Knowledge Distillation) Ground truty
Scanned with OKEN Scanner

Step By Step implementation

- To import Library
- 20 Preparing Dataset
- 3. load dataset
- 4. Pytorch Dataset (Pre procenof Data) and Data loader:

attention masse - Sometring part to the model So that we can mark out the padded token so model don't pay allution

5. Stre-tuning with custom durifier layer.



- 7) Understanding Pooled -output
 - · aggregate suppresentation
 - · Donney from [Cre] forces
- (8) Ino pect DISHIBERT
- 6) fine tuning

notherland (I)

(i) freezing Bare Model

(2) wing hugging face Toansformer

About fine-tuned_model

1. Config. Json 3-

Work-model Ka anchitecture aux Setting Store Kota

Eg-how many layer, hidden since etc.

Tell-yai model Kobatati hai aska stratus kya hai

2 = Pytorch_model = bin 3 -

work- ye actual model weight shota hai Compad of AI)

Eg- Store history

- Trained model ka result has, prediction is K through hot? hou'.

3- tokenizer-config. Json vocab Json merges. but work-model ko text Smithane layak format mai Convert Kota hai.

- convert words to number by tokenizes
- -> Presentation Tips Jabases input deta hai, tokenizer use model ke language me translati Kostu hui.
- 4. training-args. bin
- work the tunning ketym do setting use KP gaystis ose store kota has.

5) special - to kens-map. Jon & added-tokas. Json WOOK - if weald excha token so givestore is greference. Presentation - Pfany Special Symbol give to model, it memories it Slow > Tokenization fallback/

Command

Degraphom-muenu venu

Pythom-muenu venu

Popep enstall-r requiremts

but

Prepinstalmain. Py

Pu gum demo pu

Bero pu

Pipinstalmain. Py py own-demo.py your Priput : megative | Positive (confidence qui) @ pymain.py The movie was good but ?+ didn't do well for ofp (negatur) L' fall back Not goot bot not growt either. o/r (negativ) -> Classify meh YOU TIMBUT SACEP The movie was great but peoble didnt make hit at that ting I clavification asse? gourinpot: positive

- batch Enter text & The movie was good The movie didn't go well for me Correstroct ! or ish movie Enmhort: done Enter. - gui stats also Stats worlflow: quit ! 1 unzip - a self-healing - Project. 2ip 1 pipinstall - o sequinent o bet 1 pep uninotal - y peft after train Loadin download & train collab folder. takemoreky modelin

Resource (for Profect
------------	-------------

Youtube Video (By-) & Donato cappella.

(Expractical hands on walk through har i come DPSHIBERT to sentiment analysis Ke Lige time Keya gaya hai.

learn - data set load Kong, model train Krna, Evaluation.

Perfect for - Self healing classification pipiling

EBy =- Karsh Now K)

- langerraph cretting Started with langgraph.

- gen in too to langereaph - How to create Simple work flow

- stow to define nodes

Le Stateful execution Kaisthotihai

Helpin - inforence Node

- Confidence CheckNoole

- fallback Node

- and hip in implementation

By - Al Tech News)

Master LLT fine-Tuning: LORA & OLORA Explanation

- Helpin to tune fine model like Dishilbert

- strong for model-fine-toning withlow susounce
Fine tuning Distilbert gos intent Detection (By o Al with NOOR)
Cover Data preps tokenization, training evaluation
(5) Langhgraph town for Explore diff things By (Harrish neel Al)
Documentation Documentation D Hugguing face Transformer - model for fine tuning
lean How to laad Distilbert . How to tokenize and prepare datuse . Fine tuning using towner API . Infunction new example.
-And One And Only "Chat-gpt"