Basically its a prompting COT(Chain of Thoughts):> technique, Kisi bhi conclusion par aane se pahle hamara model balut baar sochta hai, phix Kisi, constision par pahuchta

Jonp. Topics:

Architecture of LLM fine Twing Training

Quantisation - Kon sa technique use hota ha; Kaise humling 32-bit se 16-bit, par aate Lain, 8-3 it par aate hain, precision kaise change hoda hai.

Hugging - face as bits & bytes library (gothnoon) Hugging - face & blog.

-> Quotient -> marktech post

-> garant - Cohere

- pinecone

- ye dono platform exatbot wade Langton & flow-wise cheez, Rag, parance Rag, es sos no cong 4 drop se Kaam Karwata

Parameters of Training Programments.

1) output - dir = "Folder - name"

besome hota Kya haj Kj toaining ke time go kuchh bhi hota hai una sabhi cheezo ka snapshot leke USS directory me store hota chala Jayega.

egs accoracy, score of evaluation, loss, value of wights and parameters, each sabli cheezo let snapshot on a every particular steps.

model check points: ye ex neural network model

Ka snapshot hota hai, so kisi bh;

Certain point par training ke time

liya zata hai. aur un certain point aap detine karte

ho, ki aap wo harek step par chahte ho ya em har

epoch par esike according aapko snapshot milega

aur outpt dir me chala zayega.

ess snapshot me rahta Kya sab hai? Gesme model Ka architecture rahta hai, layer Kitna hai, perception Kitna hai, weights Ka value Kya tha, hidden layers Kitna tha. attention meelanism me Kya-2 value use hua etc.

-1 non_train_epochs=n

General hum apre training data par Kitore baar apre model Ko train Karna Chakte hain.

- Per_device_bain_batch_Size = 8

4) Agar aapre Koi device assign Kiya hai eg- cpu @GPU.

led's suppose aap distributed touining kar rate ho. means cpu partibli train kar rate ho our Gipu par bh; train kar rate ho. ek hi saath me. means har device par ek saath 8 sample Ka hi training hogo.

-> per-device _eval-batch_8iz=8

4 es me training Ke badle evaluation Karte Lain.

- -> logging-dir = 'folder.name'
 - 2) CSS folder me aapke zitre bli logs hain wo zaake store honge. logs means, runtime kitora laga, error kya aaya, kitora slow tha, kitma fast tha, ye saare logs usme zaake store hua hai. (during training)
 - -> logging_steps = 100 means havek 100 steps Ke baad wo log define honge.
 - -i Save. Steps = 500

 Jo aapre output dir tile banaya ha; waha par
 Jo aap store Kar rahe ho, wo harek 500 steps
 Ne baad vsroe save hona Chahiye
 - -> evaluation-strategy=1 epoch
 - Li let's suppose agar save. Steps madi diya ho us fine par so hamara evaluation hoga model ha us ab har epoch he baad hoga maa ki sheps he baad.
 - -> Save total limit = 2 -1 aapke bahit saare check points wo output dir me save hote Daa rate hain. Usme lagbilag 50 check points save ho gaye yaha par Dais hum save total limits = 2 karte hain tab wo last ke ya bahut hi recent ke 2 check points store hua hai us directory me sof usiko reflect Karega.

- -> load best model alend = True
 - by ye kya karta hai ki, zitne bhi snapshot store hue the hamare directory me, during training, usme to best model hoga wahi uth ke aayega. aux wahi hum use Karenge.
- -> metric for best model = "accoracy"
 - → ye method ha; ess baat ko check Karre ka k; Kaun sa the snapshot badhiya hai, ge checz hom accuracy se measure Karenge.
- -) greater-is, better = True.

 means siska accuracy situa syada waki babhiya.
- 9 Why We use accelerate library?

Part of the said of the said of the said

- -) This accelerate library is made by hugging bace.

 ye hamare training performance Ko aux speed-up

 Kar deta hai
- Transfer learning: 91's like using what you know already know to learn something new. I magine you have rearried a lot about animals in general. Now it you want to rearn about a specific animal like a lion, you start with what you already know about animals and then books on what makes lion special.

Fine tunning: - Think of it like adjusting a reciepe
to make it perfect box a special
occasion. You start with a basic reciepe
(pre-trained model) and then tweak it a bit to
make it ovst right box what you need. So, if you
have recipe for a cake (pre-trained model), you might
adjust the ingredients or cooking time to make it
perfect for a biday party (specific task or Domain)

There with a new task, while line toming is about making small adjustments to improve performance on a specific task.

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