[CLS] the movie is good

extractive Qt 1) inputs: + a question + a paragraph that contains the answer L) output: a Span of the paragraph that answers the question Lo datasets: SQUAD v1,2; QUAC/CoQa, Hotpot QA , ... Q: Who starred in the Matrix as Neo? P: v, vz vz Neo was played by actor Keanu Roeves ... A:(i,j)How do we use BERT for extractive QA? 4) I softmax layers on each token in passage of predict beginning, end index of answer span 200 200 200 1200 200 1200 回面面面面面 BERT

[CLS] Who stored in the Matrix (SEP) w, w2 w3 ... Keans Reeves ...

how to we select an answer span at test time?
-) find the span wi; that maximizes
PSTART (i) · PEND (j)
La exclude grans where j < i
1) exclude spans longer than a threshold
advanced variants of BERT:
La pretraining improvements => RoBERTA
4) longer sequences during pretaining
- BERT => 512 tokens max
- XLNet => 900 tokens
Ly more pretraing objectives
4 ELECTRA
4) Students opened [MASK] books"
real, corrupted, real corrupted real
4) Smaller models
LITHING BERT, distilBERT, ALBERT

Li distillation
Li pruning

Transformer Ms at test-time:

Li decoder-only

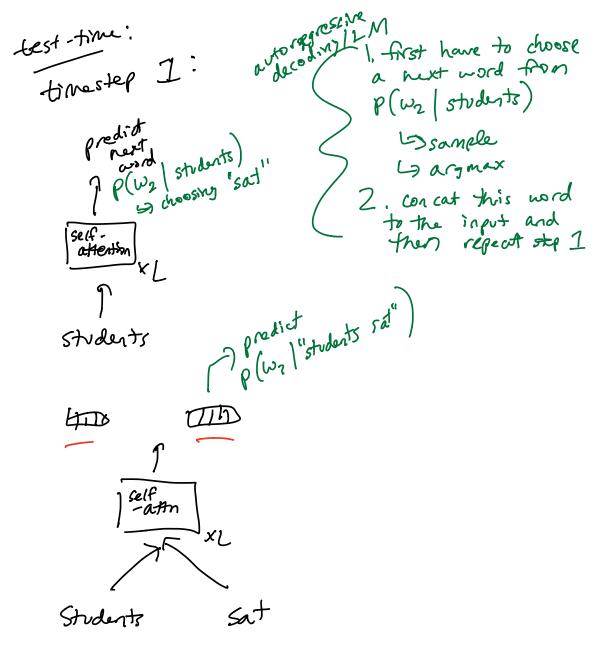
a redict of their of the

Students opened their books

Masked

Sc4-attn

These four predictions can hoppen Simultaneously b/c we already know the identity of the gold next tokens ground-tuth



at test-time, I have to decode the output word-by-word, because I don't have access to the gold next totens

L) decoding algorithms