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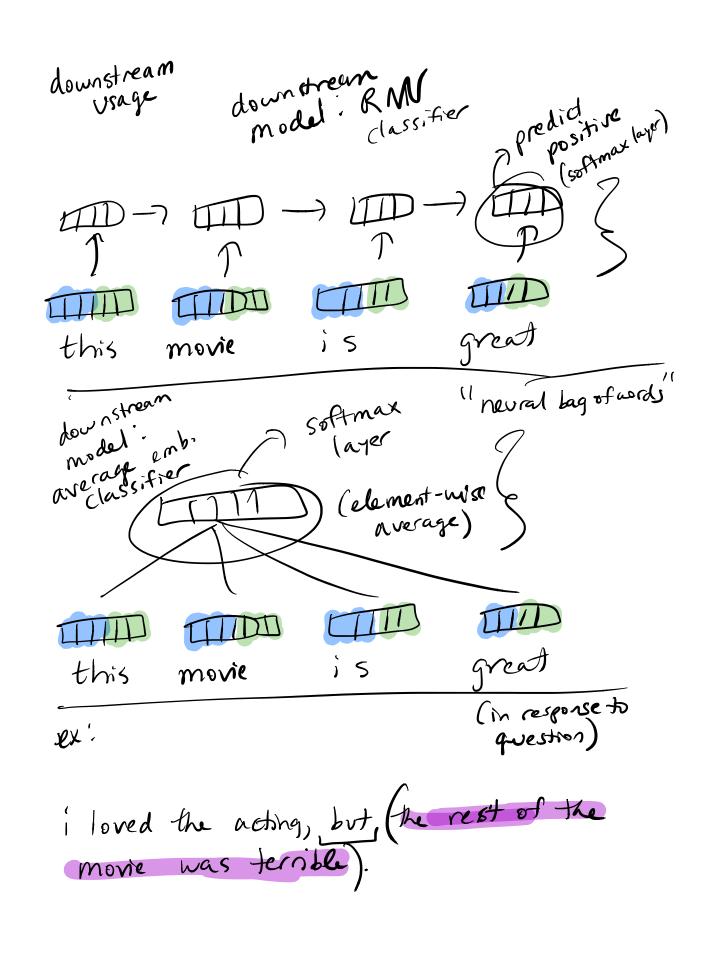
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Today: - from ELMo to BERJ - from language modeling to masked LM

Goal of pretraining: use these big LMs as text encoders. Their goal is to enable downstream models to focus on the task at hand, instead of learning how language works.

ELMo:



the ELMo approach of two separate LMs that are then concert together is a 1:+He hacky...

- can we accomplish the same goal within a single model

- change pretraining obj.

- from LM to masked LMs

masked LM!

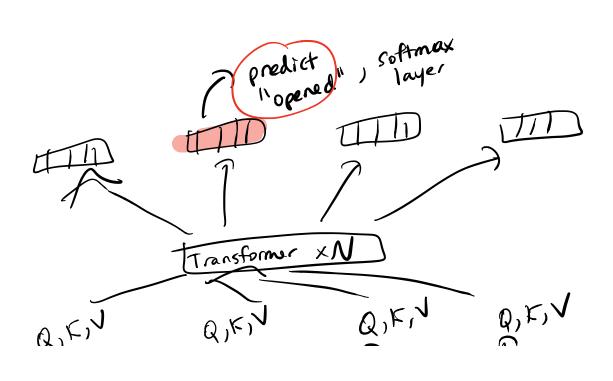
- given a full sequence of words

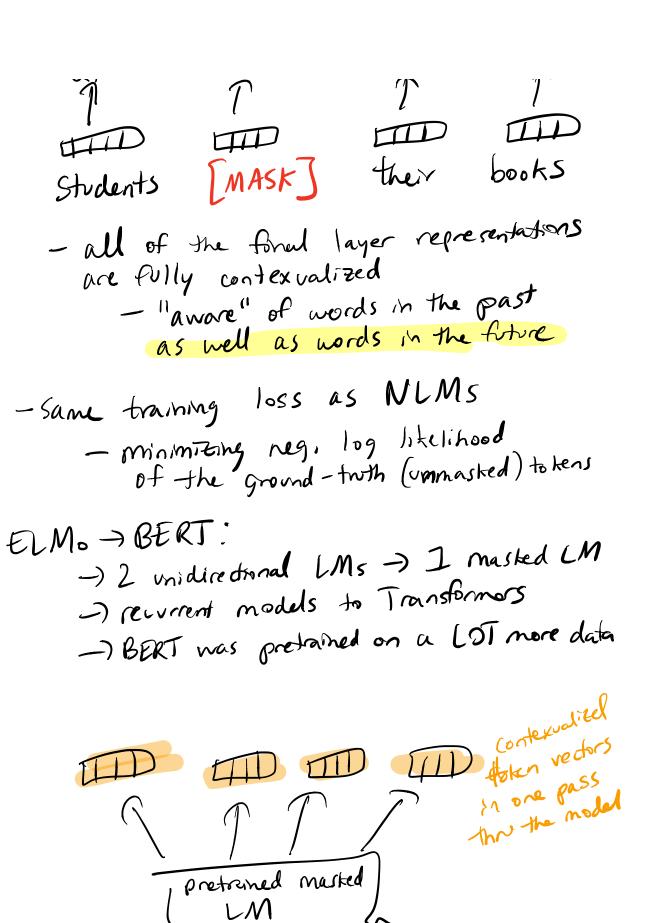
(not just prefix) where ×0/0 of

the words have been masked out

- instead of producting the north and

- instead of predicting the next word, we only predict marked words



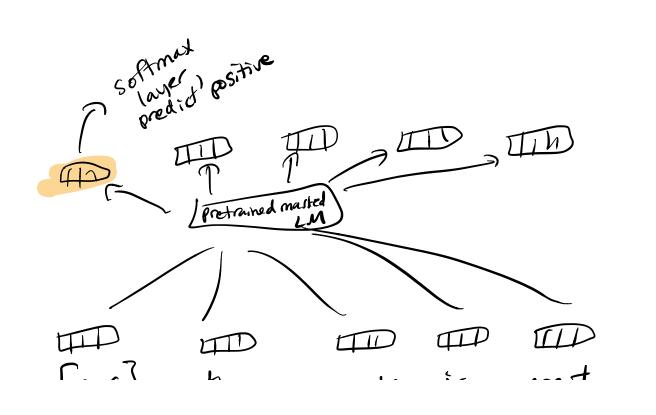




how do we use BERT for a downstream how do we use BERT for a downstream how as the fourth testure is almost the same as the downstream model

e.g. centiment analysis

-add a special token to the beginning of every sequence
- [CLS] token



[(US) This move is great

- backprop the error signal from the sentiment classifier through the entire pretrained marked LM - "fine-tuning"
 - no external downstream model - only new component is a single softmax layer

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