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NLP

transformer

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how we used to solve NLP tasks:
sentiment analysis Sentiment analysis (predict positive)
this movie is great
1. randomly institutive the model pours Wh, We, C. IVI) Wo from scratch
2. Update all parameters by backprop using cross entropy 1055 from labeled
model has to learn how larguage works from only a small labeled dataset
27014-2017 the Good Scotth?
how can we leverage lots of unlabeled data? softmax layer predict positive)
J (PEATE POSITIO) → 11111 → 11111 → 11111

Ш grat movic is we can protrain the (; 's (word embs) using another objective in that takes adv. of unlabeled date (self-supervised) - Word 2 Vec, 610 Ve - instead of starting w/ a random word embedding space, we stort from a pretrained space in which word embs. capture some linguistic prop. - train all other params from Scratch (Wh, We, Wo)

- issues w): word embeddings

are static, only one vector per

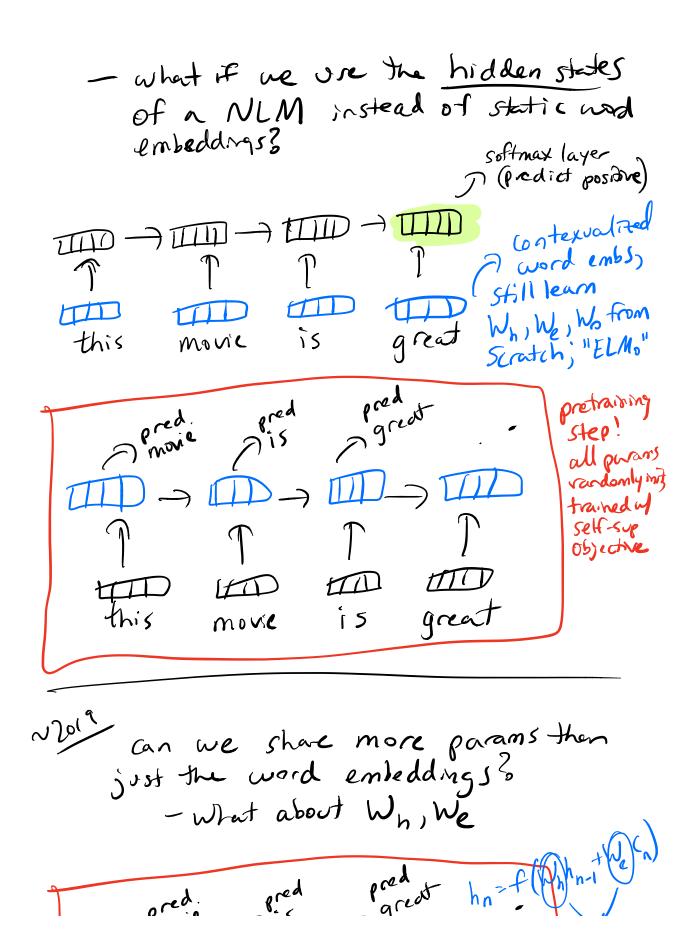
word type regardless of context

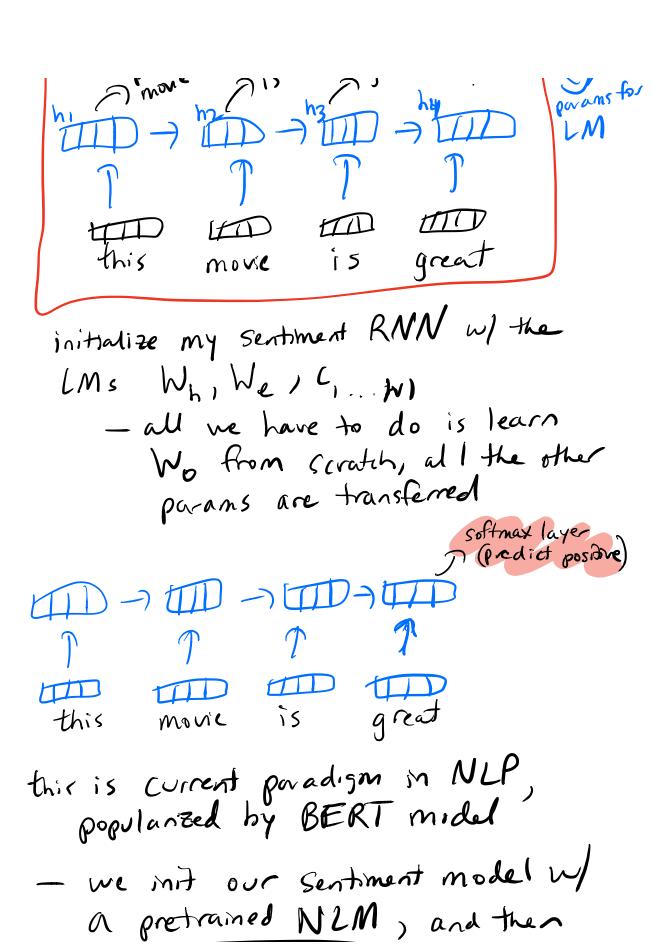
- the rest of the model (in our case,

the RNN) is responsible for learning

composition from scratch given just

labeled data





backprop the error from a diff. task (downstream task) into these parameters, this is called fine-turing

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