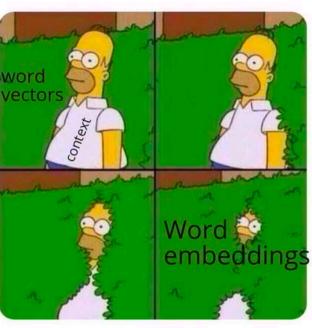
May 10, 2023

DSML: NLP module. Word embeddings

in a nutshell







When you penalize your Natural Language Generation model for large sentence lengths





Recap:

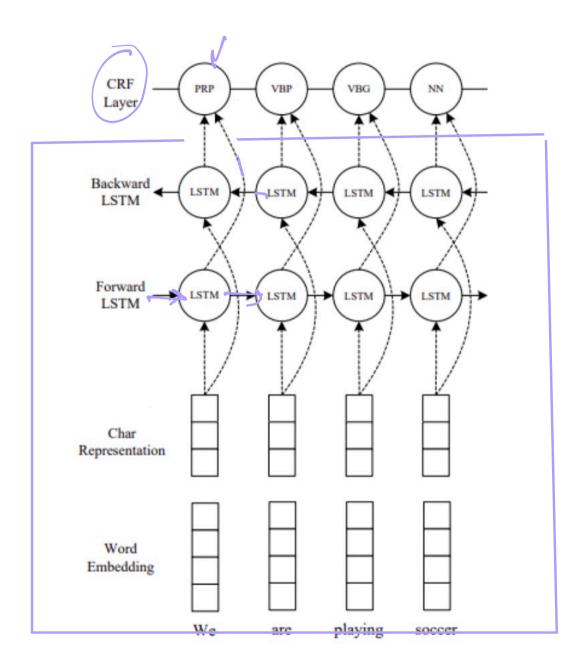
* Named lintity Recognition.

* Bidirectional LSTMs.

* Conditional Random Field (CRF).

Agenda:

- * Bidirectional dSTMs + CRF. (bode)
- * Stanza Uses this technique.
- * Introduction to attention mechanisms.



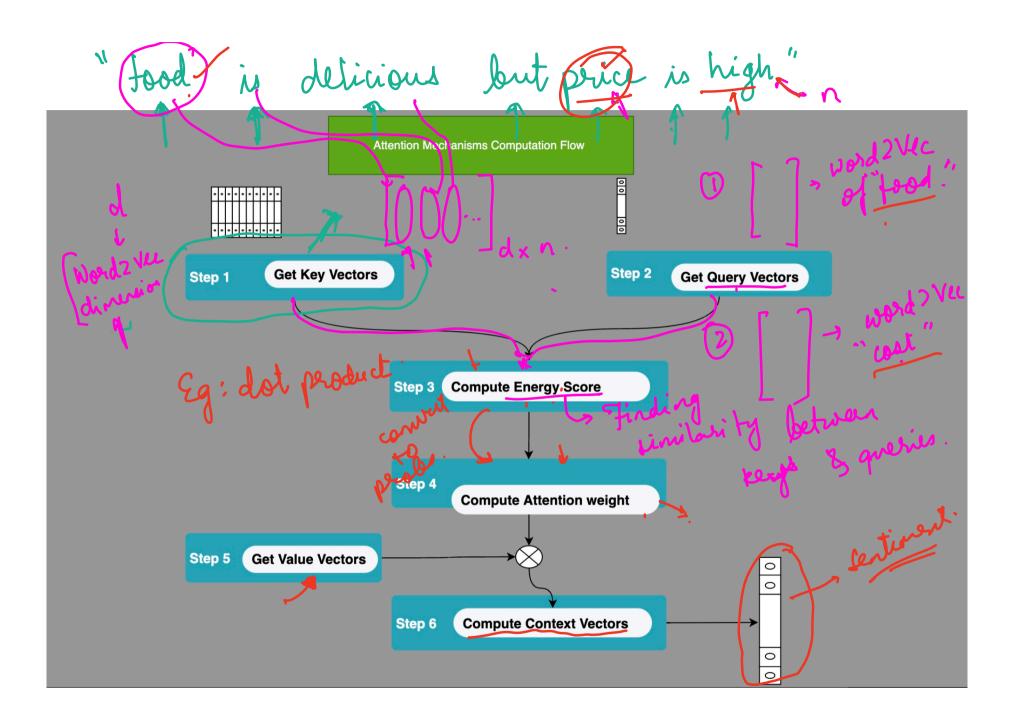
An orange fat cat called gasfield...

(DT) [] (N) I - Airmal.

attention:

RNN

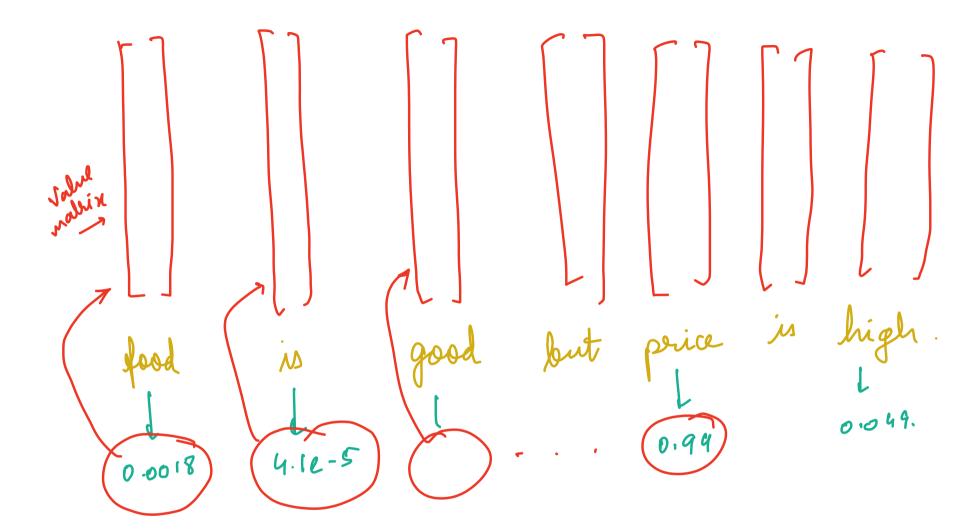
LSTM GRUS etc.



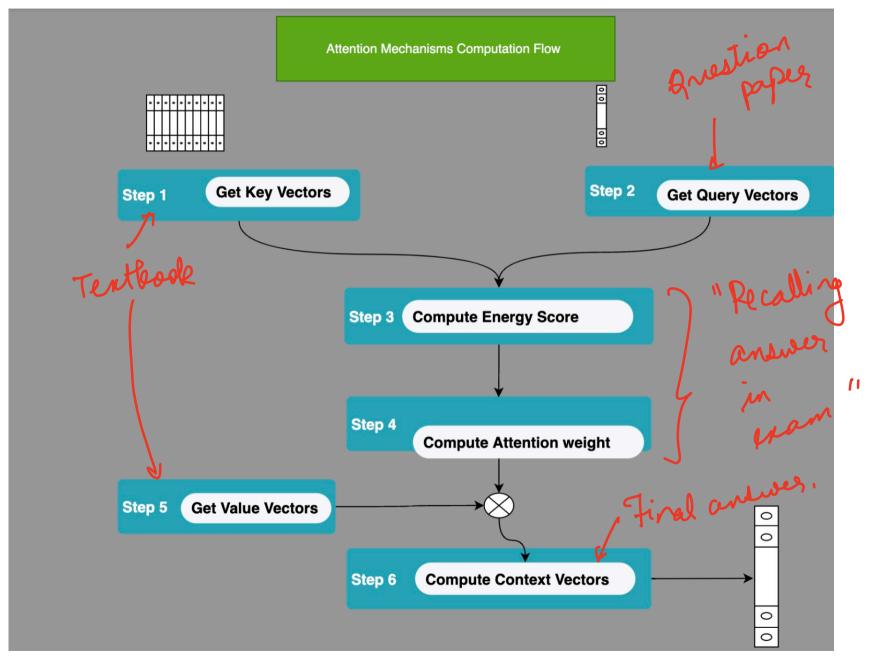
DKEY -> n x d length of embedding.

length of sentence

2 QUERY -> d x 1 rector. 3 Energy score > n x 1 3 Affention weight > n x 1



Analogy:



 $-(1-p_{\mathsf{t}})^{\gamma}\log(p_{\mathsf{t}})$

gisne: Class imbalance.

t -> high representation, Po -> high.

Q] Paper + Code for vision based attention.