<https://looperxx.github.io/CS224n-2019-Assignment/>

1. (a)

Given:

is the probability distribution given by

To prove:

Proof:

The true outside word is , and is a one-hot vector.

(b)

(c)

Case 1:

Case2:

To sum up,

(d)

if is a vector,

(**An elementwise function applied a vector**)

(e)

(f)

Assume ,