

CS224N Assignment 3

Kangwei Ling

June 14, 2017

1 A window into NER

- (a) (i.)
- **Papa Johns** make the best pizzas in America.
 - **The Goldman Sachs** are the leading global investment banking, securities and investment management firm.
- (ii.) The word itself might be ambiguous and it may convey different meaning. Thus using features, gives an overall meaning.
- (iii.)
- Part of speech (POS) tags
 - Context words
- (b) (i.)

$$\begin{aligned} \mathbf{e}^{(t)} &: (2w+1)D \\ \mathbf{W} &: (2w+1)DH \\ \mathbf{U} &: HC \end{aligned}$$

(ii.)

$$T \cdot [(2w+1)VD + (2w+1)DH + HC + C]$$