

CS224N Assignment 3

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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.)

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