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# Machine Learning - Tag Acquirer / Target in an M&A Deal

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# Problem Statement

- Three dataset files present are:

Corpus.xlsx - 900 rows \* 5 columns

system_id	title	org_link	source	date	raw_article
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MnA\_Training.xlsx - 500 rows \* 3 columns

MnA\_Test.xlsx - Test data 250 rows \* 3 columns

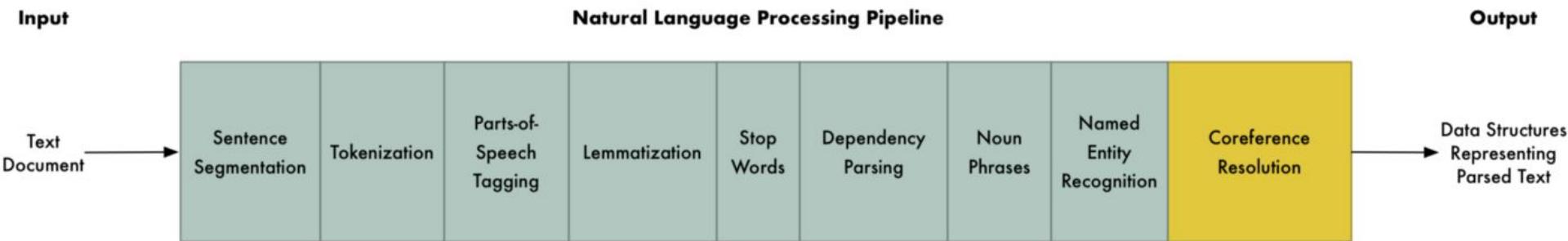
system_id	Acq_Final	Tar_Final
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# Standard Approach

- Match unique id from corpus set and training set
- Tokenizer splits data into small figments
- Use tagger library which informs about nouns, verbs, adjectives etc.
- Use parser library defines the dependency of words to each other
- Match unique id from corpus set and test set and predict Acq\_Final & Tar\_Final according to result of above algorithm

# What does this mean to you?

- Tagger
- Parser
- Tokenizer



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**Our Approach!** Let's Discuss.

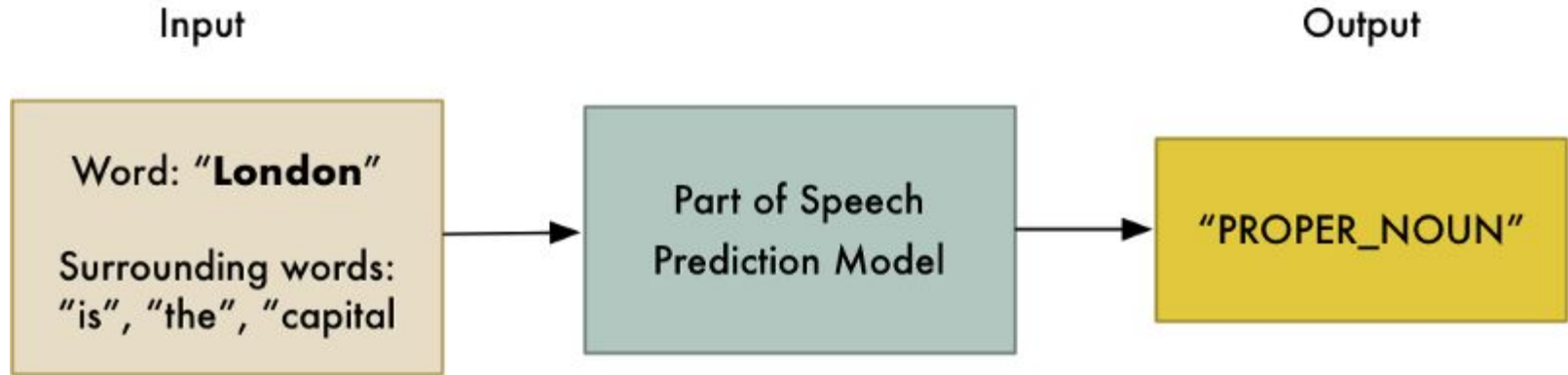
Tokenizer

Stemming

Tagger

**\*\*Rule Based Approach\*\***

# Rule Based Approach



Buy: Token after buy is target  
Sell: Token after sell is target  
Sells: Token after sells is target  
Sells to: Token after sells to is acquiring



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**Thank You**