1. Answer the following to the best of your ability:(**10points**)

a) Define Corpus:

corpus is body of text

corpus analysis is the technique to handle large quantities of text, thereby spotting patterns and styles of speech.

The corpus was analysed using three techniques: keyword analysis, examining the frequency of significant words in comparison to other corpora; collocation analysis, investigating which words are used together and offering insights into the meanings given to key terms; and semantic tagging, which compares the relative frequency of use of groups of words which share similar meanings

b) How might you make a corpus for the following problem: I want to be able to learn characteristics of a politician’s language

Keyword analysis: Keyword analysis reveals which words occur frequently in the text under study

Collocation: I analysed keywords further through looking at their collocates, or words which frequently occur together with the keyword

Semantic tagging: words grouped into categories of meaning, or semantic fields, to look at which semantic groupings are used more or less frequently in comparison to another corpus

2. a) Describe briefly 4 difficulties with identifying word boundaries algorithmically?(**8points**)

I) There are different language reports because the failure reports come from all around the world. Despite the fact that the reports are filtered for English, due to regional linguistic influence, additional language words appear alongside the English reports.

ii)Algorithms misinterpret these non-English terms as English and attempt to partition them. For example, the Portuguese word engatava, which means engaged, can be broken into 'eng' 'at' 'a' 'v' 'a'. The frequency of occurrence of a word in the dictionary determines segmentation, and the dictionary only contains English terms. The difficulty can be solved by expanding the dictionary to include words from other languages, as the methodologies are language agnostic.

iii)The classification accuracy did not improve substantially after merging the word segmentation with the Auto-sort model. Because approximately 56% of the reports are free of mistakes in the first place. The bulk of the report descriptions, on the other hand, have no more than three inaccuracies.

iv)Failure reports cannot be segmented using context-based segmentation approaches. Even though the developed vocabulary includes technical terms and codes that are relevant to these reports, they are not contextually connected. Deep learning algorithms are ineffective for this data set as well. Dictionary-based segmentation algorithms, on the other hand, are quick, need less processing, and use less memory, making them ideal for this data set.

b) What is the possible differences in the following two implementations of a word identifier(**5points**)

tokens = nltk.word\_tokenize(sentence)

and

tokens = sentence.split(“ “)

Tokenize() is a module in NLTK that is further divided into two sub-categories: Word tokenize: To separate a sentence into tokens or words, we utilise the word tokenize() method. Sentence tokenize: To separate a text or paragraph into sentences, we utilise the sent tokenize() method.

The split() function divides a string by the separator supplied and returns a list object with string elements. Any whitespace character, such as space, \t, \n, and so on, is used as the default separator.

c) Why do we use ‘tokens’ instead of ‘word’(**5points**)

Tokenization is the process of breaking down a big amount of text into smaller pieces called tokens. These tokens are extremely important for pattern recognition and are used as a starting point for stemming and lemmatization. Tokenization can also be used to replace sensitive data pieces with non-sensitive ones.

3. With the following sentence “The Cat in the Hat”(**12points**)

a) List the Uni-grams

('The',)

('Cat',)

('in',)

('the',)

('Hat',)

b) List the Bi-grams

('The', 'Cat')

('Cat', 'in')

('in', 'the')

('the', 'Hat')

c) List the Tri-grams

('The', 'Cat', 'in')

('Cat', 'in', 'the')

('in', 'the', 'Hat')

4. Answer the following about predictive models:(**10points**)

a) What is a backoff model?

Backoff means you go back to a n-1 gram level to calculate the probabilities when you encounter a word with prob=0. The most popular method is known as "stupid backoff." and whenever you go back 1 level you multiply the odds by 0.4.

b) Give an example of how a backoff may help your model.

Let's say you are using 4-grams to calculate the probability of a word in text. You have "this is a very" followed by "sunny". Let's say "sunny" never ocurred in the context "this is a very" so for the 4-grams model "sunny" has probability 0, and that's not good because we know that "sunny" is more probable than say "giraffe"

So in our case you will use a 3-gram model to calculate the probability of "sunny" in the context "is a very".

So if sunny exists in the 3-gram model the probability would be 0.4 \* P("sunny"|"is a very").You can go back to the unigram model if needed multipliying by 0.4^n where n is the number of times you backed off.

5. Why do we need *sent\_tokenize\_list = sent\_tokenize(text)* in NLTK instead of just breaking sentences apart by punctuation?(**5points**)

Because useless words like punctuation , signs, etc are taken as tokens

By using this function, the intelligence will be able to understand the core meaning of the sentence, because in this function it has a pre-trained model in it. Comparatively using sent\_tokenize is better than punctuations.

6. Briefly explain Transformation Based Tagging and how it differs from Ngram tagging for Part-of\_Speech (**8points**)

The size of nth-order taggers could be a problem.

It's critical to develop strategies to reduce the size of models without sacrificing performance if tagging is to be used in a variety of language technologies implemented on mobile computing devices. Trigram and bigram tables, enormous sparse arrays with hundreds of millions of entries, can be stored in an nth-order tagger with backoff. Because of the magnitude of the models, it is just impractical to condition nth-order models on the identities of terms in the context. We'll look at Brill tagging, a statistical tagging method that outperforms nth-order taggers by employing models that are a fraction of the size.

ngram – It's an n-item subsequence. NgramTagger subclasses concept: The part-of-speech tag for the current word can be guessed by looking at the previous words and P-O-S tags. A context dictionary is kept by each tagger (ContextTagger parent class is used to implement it)

7) Answer the following:(**12points**)

a)What is a False Negative?

A false positive occurs when the model forecasts the positive class inaccurately. A false negative is an outcome in which the model forecasts the negative class inaccurately.

False negative: When a result appears negative when it isn't. A false negative occurs when a test designed to identify cancer delivers a negative result despite the fact that the person has cancer.

b)What is a True Positive?

A true positive is when the model predicts the positive class properly. A real negative, on the other hand, is a result in which the model correctly predicts the negative class.

For example, if the condition is an illness, "true positive" indicates "properly identified as diseased."

c)When should Accuracy be used as a metric?

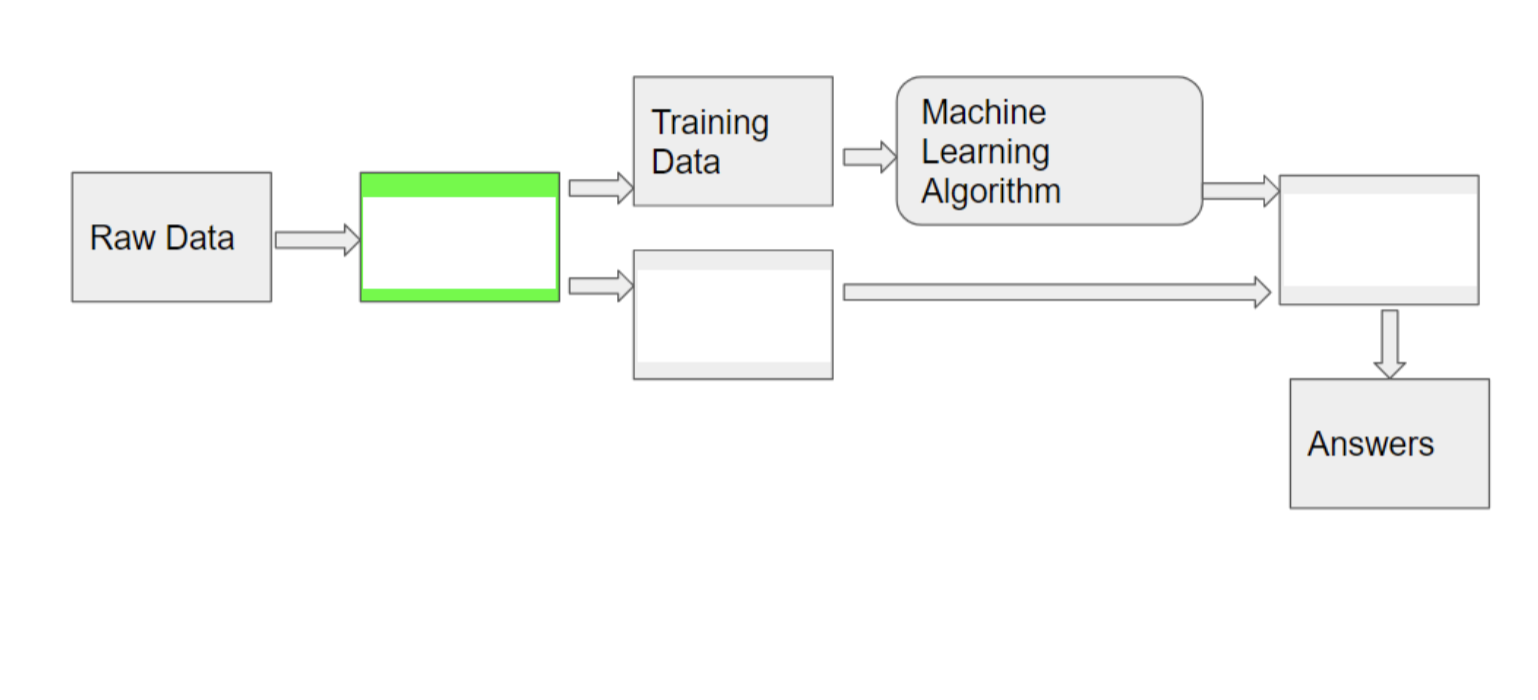
a weighted arithmetic mean of Precision and Inverse Precision (weighted by Bias) as well as a weighted arithmetic mean of Recall and Inverse Recall.

d)What is the difference between Precision and Recall? When would you use them?

For a text search on a set of documents, precision is the number of correct results divided by the number of all returned results.

Text search on a set of documents, recall is the number of correct results divided by the number of results that should have been returned. These used to evaluate the text mining algorithms

8. Fill in the 3 empty boxes for a typical machine learning cycle:(**9points**)



1. Data

2. Feature Extractor

3. Classifier Model

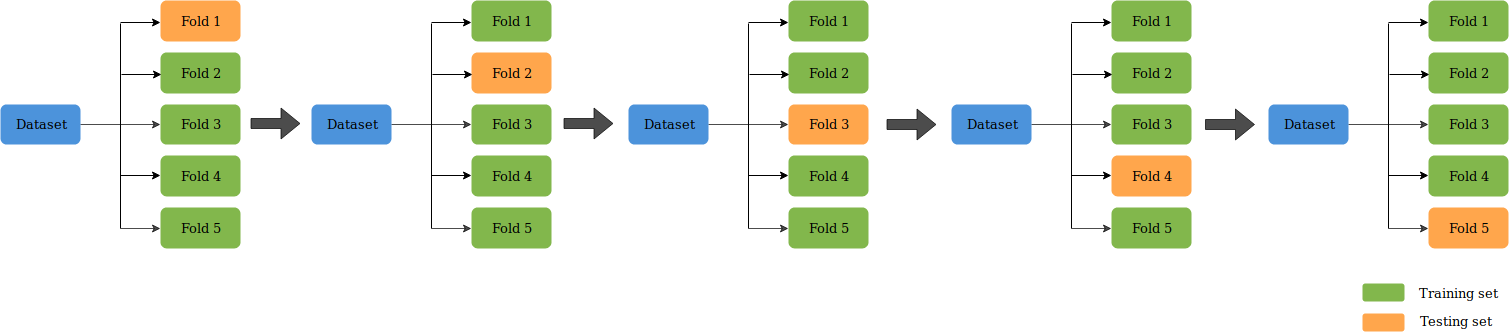
9. What are the two differences when you test on your training data versus testing on your test data? (**4points**)

In test on your training data, the test accuracy will be high compared to the test dataset, this is because the model have already trained and seen the training datset, so it is easy for the model to classify the training dataset. But, when it’s coming to test dataset, all the data are new and unknown to the model. From the experience of the training dataset, it will be able to classify test dataset.

10. Explain (or draw) k-fold validation when k=5 (**6points**)

The general procedure is as follows:

* Shuffle the dataset randomly.
* Split the dataset into k groups(k=5)
* For each unique group:
  + Take the group as a hold out or test data set
  + Take the remaining groups as a training data set
  + Fit a model on the training set and evaluate it on the test set
  + Retain the evaluation score and discard the model
* Summarize the skill of the model using the sample of model evaluation scores



11. Show 3 examples where a Named Entity System can get confused by ambiguity (**6points**)

The pen is good. This cost 10 USD.

The 10 $ is assigned to unknown entity

The flowers are good . I like the lilly.

Lily is never known as flower

The politician speech changed over time. Kennedy and Robert seems uninterested.

Kennedy and Robert can be politicians or reporters

**PART II**

1. Use given script to download 1 Wikipedia page
2. Run NLTK’s NER tool.
3. Examine both the PERSON and LOCATION Entities
4. Calculate Precision, Recall, and F-Measure for both Person or Location (whichever your document has)

pip install pymediawiki

To Harvest WIKI

from mediawiki import MediaWiki  
wikipedia = MediaWiki()  
  
p = wikipedia.page('Marymount University')  
content= p.content  
print(content)  
  
  
  
  
To Tag Named Entities  
1) Word Tokenize a Sentence  
2) POS tag the tokens  
3) print(nltk.ne\_chunk(tagged))

PERSON Marymount

ORGANIZATION University

ORGANIZATION Catholic

GPE Arlington

GPE Virginia

PERSON Marymount

PERSON Marymount

ORGANIZATION Religious

ORGANIZATION Sacred Heart

GPE Mary

ORGANIZATION RSHM

PERSON Marymount College

ORGANIZATION Marymount

GPE New York

GPE California

ORGANIZATION Admiral

PERSON Naval Surgeon General

PERSON William McKinley

PERSON Rixey Mansion

PERSON Main House

PERSON Marymount

ORGANIZATION Physical Therapy

PERSON Marymount University

ORGANIZATION Center

PERSON Ethical Concerns

PERSON Marymount

ORGANIZATION Caruthers Hall

PERSON Rose Benté Lee Ostapenko Hall

ORGANIZATION Malek Plaza

PERSON Sister Majella Berg

ORGANIZATION RSHM

PERSON Marymount

PERSON Marymount

PERSON Ballston Center

ORGANIZATION LEED Gold

GPE Rixey

PERSON Ballston

PERSON Center

ORGANIZATION Reinsch Pierce Family Courtyard

PERSON Marymount University

ORGANIZATION Commission

ORGANIZATION Colleges

LOCATION Southern Association

GPE Colleges

PERSON Schools

ORGANIZATION College

GPE Health

PERSON Education

PERSON College

GPE Business

GPE Innovation

ORGANIZATION Leadership

ORGANIZATION Technology

ORGANIZATION College

GPE Science

ORGANIZATION Humanities

PERSON Marymount

ORGANIZATION Consortium

ORGANIZATION Universities

ORGANIZATION Washington Metropolitan Area

PERSON Campuses

PERSON Campus

PERSON Marymount

LOCATION North Arlington

GPE Arlington

GPE Virginia

PERSON Rose Benté Lee Ostapenko Hall

PERSON Rowley Hall

PERSON Butler Hall

GPE St. Joseph

PERSON Berg Hall

PERSON Gerard Phelan Hall

PERSON Rowley Academic Center

PERSON Caruthers Hall

PERSON Gailhac Hall

GPE St. Joseph

ORGANIZATION Hall

ORGANIZATION Rose Benté Lee Center

PERSON Bernie

ORGANIZATION Cafe

ORGANIZATION Gerard Phelan Cafeteria

ORGANIZATION Emerson

GPE Auditorium

GPE Lodge

PERSON Ireton Hall

FACILITY Main House

ORGANIZATION Sacred Heart

GPE Mary

PERSON Ballston Center

PERSON Marymount

PERSON Ballston Center

GPE Arlington

ORGANIZATION College

GPE Business

GPE Innovation

GPE Leadership

PERSON Technology

ORGANIZATION Human Services

ORGANIZATION Forensic

PERSON Legal Psychology

ORGANIZATION College

GPE Health

ORGANIZATION Education

ORGANIZATION Graduate Enrollment Services

ORGANIZATION Cody Gallery

PERSON Eats Café

PERSON Coakley Family Library

ORGANIZATION Rixey

PERSON Marymount

ORGANIZATION Ballston Center

PERSON Main Campus

PERSON Ballston Center

ORGANIZATION Center

PERSON Marymount

ORGANIZATION MedStar Clinic

PERSON Marymount

ORGANIZATION MedStar

PERSON Network

PERSON Marymount

ORGANIZATION Main Campus

PERSON Marymount

GPE Saints

ORGANIZATION NCAA Division

ORGANIZATION Atlantic East Conference

GPE Men

GPE Women

ORGANIZATION Capital Athletic Conference

PERSON Marymount

ORGANIZATION Atlantic East Conference

ORGANIZATION NCAA

GPE Marymount

ORGANIZATION Atlantic East Conference

ORGANIZATION Virginia Sports Information

ORGANIZATION VaSID

PERSON Academic

PERSON Marymount

PERSON Clubs

PERSON Marymount University

ORGANIZATION Student Transition

GPE Engagement

ORGANIZATION Leadership

GPE Student

ORGANIZATION Marymount

ORGANIZATION Student

ORGANIZATION Association

PERSON Campus Events

PERSON Marymount University

ORGANIZATION Banner

ORGANIZATION Community Assistant

PERSON Peer Mentor

PERSON Marymount

ORGANIZATION Dominican Republic

GPE Sierra Leone

PERSON Marymount

PERSON Marymount University

ORGANIZATION Saints

ORGANIZATION Center

GPE Service

ORGANIZATION Center

PERSON Marymount University

PERSON Marymount

PERSON Marymount University

GPE U.S.

ORGANIZATION Most International Students

PERSON Campus Ethnic Diversity

PERSON Top Tier

ORGANIZATION Regional Universities South Best Value School Best Colleges

PERSON Veterans Best Online Graduate Business

ORGANIZATION CybersecurityAdditional

ORGANIZATION HSI

ORGANIZATION U.S. Department

GPE Education

ORGANIZATION World Affairs Council

GPE Washington

ORGANIZATION D.C.

ORGANIZATION Associate

PERSON Clinical Enterprise

ORGANIZATION INOVA Health System

PERSON Steven Boutelle

GPE U.S.

ORGANIZATION Army Yene Damtew

PERSON Michelle Obama Cindy Eckert

ORGANIZATION CEO

PERSON Sprout Pharmaceuticals Tonye Garrick

GPE Nigerian

PERSON Ryan Hampton

PERSON Katherine Kallinis Berman

PERSON Georgetown Cupcake

ORGANIZATION TLC

ORGANIZATION DC Cupcakes Gregg

ORGANIZATION FBI

PERSON Noor Rashid Al Khalifa

ORGANIZATION CEO

PERSON Noor Rashad Robinson

GPE Color

PERSON Change Timothy Sheehan

ORGANIZATION CEO

GPE Greenlight

PERSON Michael D. Smith

PERSON Executive Director

PERSON Brother

GPE Keeper

ORGANIZATION MBK

ORGANIZATION Obama Foundation

ORGANIZATION Equity

PERSON Inclusion Officer

PERSON Wendy

ORGANIZATION Company Tyler Wisler

ORGANIZATION HGTV Star

PERSON Doreen Wonda Johnson

ORGANIZATION New Mexico House

ORGANIZATION Representatives Mia Yim

[('Marymount', 'NNP'), ('University', 'NNP'), ('is', 'VBZ'), ('a', 'DT'), ('private', 'JJ'), ('Catholic', 'NNP'), ('university', 'NN'), ('with', 'IN'), ('its', 'PRP$'), ('main', 'JJ'), ('campus', 'NN'), ('in', 'IN'), ('Arlington', 'NNP'), (',', ','), ('Virginia', 'NNP'), ('.', '.'), ('Marymount', 'NNP'), ('offers', 'VBZ'), ('bachelor', 'NN'), ("'s", 'POS'), (',', ','), ('master', 'NN'), ("'s", 'POS'), (',', ','), ('and', 'CC'), ('doctoral', 'JJ'), ('degrees', 'NNS'), ('in', 'IN'), ('a', 'DT'), ('wide', 'JJ'), ('range', 'NN'), ('of', 'IN'), ('disciplines', 'NNS'), ('.', '.'), ('It', 'PRP'), ('has', 'VBZ'), ('approximately', 'RB'), ('3,294', 'CD'), ('students', 'NNS'), ('enrolled', 'VBD'), (',', ','), ('representing', 'VBG'), ('approximately', 'RB'), ('45', 'CD'), ('states', 'NNS'), ('and', 'CC'), ('78', 'CD'), ('countries', 'NNS'), ('.', '.'), ('==', 'JJ'), ('History', 'NNP'), ('==', 'NNP'), ('Marymount', 'NNP'), ('was', 'VBD'), ('founded', 'VBN'), ('in', 'IN'), ('1950', 'CD'), ('by', 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'JJ'), ('Doctor', 'NNP'), ('of', 'IN'), ('Physical', 'NNP'), ('Therapy', 'NNP'), (',', ','), ('in', 'IN'), ('2005', 'CD'), ('.', '.'), ('Its', 'PRP$'), ('first', 'JJ'), ('male', 'JJ'), ('students', 'NNS'), ('were', 'VBD'), ('admitted', 'VBN'), ('into', 'IN'), ('the', 'DT'), ('nursing', 'NN'), ('program', 'NN'), ('in', 'IN'), ('1972', 'CD'), (',', ','), ('and', 'CC'), ('the', 'DT'), ('college', 'NN'), ('became', 'VBD'), ('fully', 'RB'), ('coeducational', 'JJ'), ('and', 'CC'), ('changed', 'VBD'), ('its', 'PRP$'), ('name', 'NN'), ('to', 'TO'), ('Marymount', 'NNP'), ('University', 'NNP'), ('in', 'IN'), ('1986.The', 'CD'), ('university', 'NN'), ('established', 'VBD'), ('the', 'DT'), ('Center', 'NNP'), ('for', 'IN'), ('Ethical', 'NNP'), ('Concerns', 'NNP'), ('in', 'IN'), ('1993', 'CD'), ('.', '.'), ('In', 'IN'), ('October', 'NNP'), ('2010', 'CD'), (',', ','), ('Marymount', 'NNP'), ('celebrated', 'VBD'), ('its', 'PRP$'), ('60th', 'JJ'), ('anniversary', 'NN'), ('with', 'IN'), ('the', 'DT'), 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('Joseph', 'NNP'), ("'s", 'POS'), ('Hall', 'NNP'), ('computer', 'NN'), ('labs', 'NN'), (';', ':'), ('the', 'DT'), ('Rose', 'NNP'), ('Benté', 'NNP'), ('Lee', 'NNP'), ('Center', 'NNP'), (',', ','), ('which', 'WDT'), ('includes', 'VBZ'), ('two', 'CD'), ('gyms', 'NN'), (',', ','), ('Bernie', 'NNP'), ("'s", 'POS'), ('Cafe', 'NNP'), (',', ','), ('mail', 'NN'), ('facilities', 'NNS'), (',', ','), ('and', 'CC'), ('recreational', 'JJ'), ('and', 'CC'), ('meeting', 'JJ'), ('spaces', 'NNS'), (';', ':'), ('the', 'DT'), ('Gerard', 'NNP'), ('Phelan', 'NNP'), ('Cafeteria', 'NNP'), (';', ':'), ('the', 'DT'), ('Emerson', 'NNP'), ('G.', 'NNP'), ('Reinsch', 'NNP'), ('Library', 'NNP'), ('and', 'CC'), ('Auditorium', 'NNP'), (';', ':'), ('the', 'DT'), ('Lodge', 'NNP'), (';', ':'), ('Ireton', 'NNP'), ('Hall', 'NNP'), (';', ':'), ('the', 'DT'), ('Main', 'NNP'), ('House', 'NNP'), (';', ':'), ('the', 'DT'), ('Chapel', 'NNP'), ('of', 'IN'), ('the', 'DT'), ('Sacred', 'NNP'), ('Heart', 'NNP'), ('of', 'IN'), ('Mary', 'NNP'), (';', ':'), ('and', 'CC'), ('the', 'DT'), ('synthetic-turf', 'JJ'), ('practice', 'NN'), ('field', 'NN'), ('.', '.'), ('===', 'JJ'), ('Ballston', 'NNP'), ('Center', 'NNP'), ('===', 'NNP'), ('Marymount', 'NNP'), ("'s", 'POS'), ('Ballston', 'NNP'), ('Center', 'NNP'), ('is', 'VBZ'), ('2', 'CD'), ('miles', 'NNS'), ('(', '('), ('3.2', 'CD'), ('km', 'NN'), (')', ')'), ('away', 'RB'), ('from', 'IN'), ('the', 'DT'), ('main', 'JJ'), ('campus', 'NN'), ('in', 'IN'), ('Arlington', 'NNP'), ('and', 'CC'), ('houses', 'NNS'), ('the', 'DT'), ('College', 'NNP'), ('of', 'IN'), ('Business', 'NNP'), (',', ','), ('Innovation', 'NNP'), (',', ','), ('Leadership', 'NNP'), (',', ','), ('and', 'CC'), ('Technology', 'NNP'), ('as', 'RB'), ('well', 'RB'), ('as', 'IN'), ('the', 'DT'), ('Counseling', 'NNP'), (',', ','), ('Human', 'NNP'), ('Services', 'NNPS'), (',', ','), ('and', 'CC'), ('Forensic', 'NNP'), ('&', 'CC'), ('Legal', 'NNP'), ('Psychology', 'NNP'), ('programs', 'NNS'), ('of', 'IN'), ('the', 'DT'), ('College', 'NNP'), ('of', 'IN'), ('Health', 'NNP'), ('and', 'CC'), ('Education', 'NNP'), ('.', '.'), ('The', 'DT'), ('Graduate', 'NNP'), ('Enrollment', 'NNP'), ('Services', 'NNP'), ('office', 'NN'), ('is', 'VBZ'), ('also', 'RB'), ('located', 'VBN'), ('here', 'RB'), ('.', '.'), ('The', 'DT'), ('center', 'NN'), ('also', 'RB'), ('includes', 'VBZ'), ('the', 'DT'), ('Cody', 'NN'), ('Gallery', 'NNP'), (',', ','), ('Eats', 'NNP'), ('Café', 'NNP'), (',', ','), ('Coakley', 'NNP'), ('Family', 'NNP'), ('Library', 'NNP'), (',', ','), ('computer', 'NN'), ('labs', 'NN'), (',', ','), ('chapel', 'NN'), (',', ','), ('conference', 'NN'), ('center', 'NN'), ('and', 'CC'), ('auditorium', 'NN'), ('.', '.'), ('Across', 'IN'), ('the', 'DT'), ('courtyard', 'NN'), (',', ','), ('The', 'DT'), ('Rixey', 'NNP'), ('offers', 'VBZ'), ('retail', 'JJ'), ('space', 'NN'), ('as', 'RB'), ('well', 'RB'), ('as', 'IN'), ('residential', 'JJ'), ('apartments', 'NNS'), (',', ','), ('including', 'VBG'), ('Marymount', 'NNP'), ('graduate', 'NN'), ('student', 'NN'), ('housing', 'NN'), ('.', '.'), ('The', 'DT'), ('Ballston-MU', 'JJ'), ('Metro', 'NNP'), ('Station', 'NNP'), ('is', 'VBZ'), ('within', 'IN'), ('walking', 'VBG'), ('distance', 'NN'), ('from', 'IN'), ('the', 'DT'), ('Ballston', 'NNP'), ('Center', 'NNP'), ('.', '.'), ('Additionally', 'RB'), (',', ','), ('free', 'JJ'), ('shuttle', 'NN'), ('services', 'NNS'), ('operate', 'VBP'), ('between', 'IN'), ('the', 'DT'), ('Ballston-MU', 'NNP'), ('Metro', 'NNP'), ('Station', 'NNP'), (',', ','), ('Main', 'NNP'), ('Campus', 'NNP'), (',', ','), ('4040', 'CD'), ('Center', 'NNP'), ('and', 'CC'), ('Ballston', 'NNP'), ('Center', 'NNP'), ('.', '.'), ('===', 'JJ'), ('4040', 'CD'), ('Center', 'NNP'), ('===', 'NNP'), ('Marymount', 'NNP'), ("'s", 'POS'), ('4040', 'CD'), ('Center', 'NNP'), ('houses', 'NNS'), ('its', 'PRP$'), ('physical', 'JJ'), ('therapy', 'NN'), ('doctoral', 'JJ'), ('program', 'NN'), ('and', 'CC'), ('MedStar', 'NNP'), ('Clinic', 'NNP'), ('.', '.'), ('The', 'DT'), ('clinic', 'NN'), (',', ','), ('a', 'DT'), ('partnership', 'NN'), ('between', 'IN'), ('Marymount', 'NNP'), ('and', 'CC'), ('MedStar', 'NNP'), ('NRH', 'NNP'), ('Rehabilitation', 'NNP'), ('Network', 'NNP'), (',', ','), ('provides', 'VBZ'), ('physical', 'JJ'), ('therapy', 'NN'), ('services', 'NNS'), ('to', 'TO'), ('the', 'DT'), ('community', 'NN'), ('while', 'IN'), ('allowing', 'VBG'), ('for', 'IN'), ('an', 'DT'), ('enriching', 'VBG'), ('environment', 'NN'), ('in', 'IN'), ('which', 'WDT'), ('Marymount', 'NNP'), ('physical', 'JJ'), ('therapy', 'NN'), ('students', 'NNS'), ('gain', 'VBP'), ('valuable', 'JJ'), ('clinical', 'JJ'), ('education', 'NN'), ('experience', 'NN'), ('.', '.'), ('The', 'DT'), ('4040', 'CD'), ('Center', 'NNP'), ('location', 'NN'), ('is', 'VBZ'), ('just', 'RB'), ('minutes', 'NNS'), ('from', 'IN'), ('the', 'DT'), ('Main', 'NNP'), ('Campus', 'NNP'), ('and', 'CC'), ('within', 'IN'), ('walking', 'VBG'), ('distance', 'NN'), ('of', 'IN'), ('the', 'DT'), ('Ballston-MU', 'NNP'), ('Metro', 'NNP'), ('Station', 'NNP'), ('.', '.'), ('Students', 'NNS'), ('travel', 'VBP'), ('to', 'TO'), ('and', 'CC'), ('from', 'IN'), ('locations', 'NNS'), ('on', 'IN'), ('free', 'JJ'), ('Marymount', 'NNP'), ('shuttles', 'NNS'), ('.', '.'), ('==', 'JJ'), ('Athletics', 'NNPS'), ('and', 'CC'), ('recreation', 'NN'), ('==', 'NNP'), ('Marymount', 'NNP'), ("'s", 'POS'), ('athletic', 'JJ'), ('teams', 'NNS'), (',', ','), ('known', 'VBN'), ('as', 'IN'), ('the', 'DT'), ('Saints', 'NNP'), (',', ','), ('compete', 'NN'), ('in', 'IN'), ('NCAA', 'NNP'), ('Division', 'NNP'), ('III', 'NNP'), ('in', 'IN'), ('the', 'DT'), ('Atlantic', 'NNP'), ('East', 'NNP'), ('Conference', 'NNP'), ('and', 'CC'), ('sponsor', 'VBD'), ('20', 'CD'), ('sports', 'NNS'), ('.', '.'), ('Men', 'NN'), ("'s", 'POS'), ('sports', 'NNS'), ('include', 'VBP'), ('baseball', 'NN'), (',', ','), ('basketball', 'NN'), (',', ','), ('cross', 'JJ'), ('country', 'NN'), (',', ','), ('golf', 'NN'), (',', ','), ('lacrosse', 'NN'), (',', ','), ('soccer', 'NN'), (',', ','), ('swimming', 'NN'), (',', ','), ('tennis', 'NN'), (',', ','), ('track', 'NN'), ('&', 'CC'), ('field', 'NN'), (',', ','), ('and', 'CC'), ('volleyball', 'NN'), ('.', '.'), ('Women', 'NNP'), ("'s", 'POS'), ('sports', 'NNS'), ('include', 'VBP'), ('basketball', 'NN'), (',', ','), ('cross', 'JJ'), ('country', 'NN'), (',', ','), ('golf', 'NN'), (',', ','), ('lacrosse', 'NN'), (',', ','), ('soccer', 'NN'), (',', ','), ('softball', 'NN'), (',', ','), ('swimming', 'NN'), (',', ','), ('tennis', 'NN'), (',', ','), ('track', 'NN'), ('&', 'CC'), ('field', 'NN'), (',', ','), ('and', 'CC'), ('volleyball.After', 'RB'), ('nearly', 'RB'), ('29', 'CD'), ('years', 'NNS'), ('as', 'IN'), ('a', 'DT'), ('founding', 'JJ'), ('member', 'NN'), ('of', 'IN'), ('the', 'DT'), ('Capital', 'NNP'), ('Athletic', 'NNP'), ('Conference', 'NNP'), (',', ','), ('Marymount', 'NNP'), ('joined', 'VBD'), ('with', 'IN'), ('six', 'CD'), ('other', 'JJ'), ('institutions', 'NNS'), ('in', 'IN'), ('the', 'DT'), ('region', 'NN'), ('to', 'TO'), ('form', 'VB'), ('a', 'DT'), ('new', 'JJ'), ('league', 'NN'), (',', ','), ('the', 'DT'), ('Atlantic', 'NNP'), ('East', 'NNP'), ('Conference', 'NNP'), (',', ','), ('which', 'WDT'), ('received', 'VBD'), ('NCAA', 'NNP'), ('approval', 'NN'), ('to', 'TO'), ('begin', 'VB'), ('competition', 'NN'), ('on', 'IN'), ('September', 'NNP'), ('1', 'CD'), (',', ','), ('2018.In', 'CD'), ('2020', 'CD'), (',', ','), ('a', 'DT'), ('record', 'NN'), ('50', 'CD'), ('percent', 'NN'), ('of', 'IN'), ('Marymount', 'NNP'), ('student-athletes', 'NNS'), ('were', 'VBD'), ('named', 'VBN'), ('to', 'TO'), ('the', 'DT'), ('Atlantic', 'NNP'), ('East', 'NNP'), ('Conference', 'NNP'), ('All-Academic', 'NNP'), ('Team', 'NNP'), ('.', '.'), ('Additionally', 'RB'), (',', ','), ('six', 'CD'), ('student-athletes', 'NNS'), ('earned', 'VBD'), ('a', 'DT'), ('spot', 'NN'), ('on', 'IN'), ('the', 'DT'), ('Virginia', 'NNP'), ('Sports', 'NNP'), ('Information', 'NNP'), ('Directors', 'NNP'), ('(', '('), ('VaSID', 'NNP'), (')', ')'), ('Academic', 'NNP'), ('All-State', 'NNP'), ('team', 'NN'), ('.', '.'), ('Marymount', 'NNP'), ('also', 'RB'), ('offers', 'VBZ'), ('recreation', 'NN'), ('and', 'CC'), ('intramural', 'JJ'), ('programming', 'NN'), ('throughout', 'IN'), ('the', 'DT'), ('year', 'NN'), ('.', '.'), ('Intramural', 'JJ'), ('offerings', 'NNS'), ('include', 'VBP'), ('basketball', 'NN'), (',', ','), ('volleyball', 'NN'), (',', ','), ('soccer', 'NN'), (',', ','), ('ultimate', 'JJ'), ('frisbee', 'NN'), (',', ','), ('kickball', 'NN'), (',', ','), ('wiffleball', 'NN'), (',', ','), ('and', 'CC'), ('canoe', 'JJ'), ('battleship', 'NN'), ('.', '.'), ('A', 'DT'), ('variety', 'NN'), ('of', 'IN'), ('fitness', 'NN'), ('classes', 'NNS'), ('are', 'VBP'), ('offered', 'VBN'), ('free', 'JJ'), ('to', 'TO'), ('students', 'NNS'), (',', ','), ('faculty', 'NN'), (',', ','), ('and', 'CC'), ('staff', 'NN'), ('.', '.'), ('==', 'NN'), ('Clubs', 'NNP'), ('and', 'CC'), ('student', 'NN'), ('organizations', 'NNS'), ('==', 'VBP'), ('Marymount', 'NNP'), ('University', 'NNP'), ('has', 'VBZ'), ('over', 'RP'), ('30', 'CD'), ('clubs', 'NNS'), ('and', 'CC'), ('student', 'NN'), ('organizations', 'NNS'), (',', ','), ('most', 'JJS'), ('of', 'IN'), ('which', 'WDT'), ('are', 'VBP'), ('advised', 'VBN'), ('by', 'IN'), ('the', 'DT'), ('Office', 'NNP'), ('of', 'IN'), ('Student', 'NNP'), ('Transition', 'NNP'), (',', ','), ('Engagement', 'NNP'), (',', ','), ('and', 'CC'), ('Leadership', 'NNP'), ('.', '.'), ('Student', 'NN'), ('clubs', 'NNS'), ('and', 'CC'), ('organizations', 'NNS'), ('are', 'VBP'), ('created', 'VBN'), ('based', 'VBN'), ('on', 'IN'), ('the', 'DT'), ('interests', 'NNS'), ('of', 'IN'), ('Marymount', 'NNP'), ('students', 'NNS'), (',', ','), ('and', 'CC'), ('include', 'VBP'), ('groups', 'NNS'), ('dedicated', 'VBD'), ('to', 'TO'), ('community', 'NN'), ('service', 'NN'), ('or', 'CC'), ('philanthropy', 'NN'), (',',

','), ('cultural', 'JJ'), ('appreciation', 'NN'), (',', ','), ('or', 'CC'), ('specific', 'JJ'), ('academic', 'JJ'), ('interest', 'NN'), ('.', '.'), ('The', 'DT'), ('Student', 'NNP'), ('Government', 'NNP'), ('Association', 'NNP'), (',', ','), ('Association', 'NNP'), ('for', 'IN'), ('Campus', 'NNP'), ('Events', 'NNP'), (',', ','), ('and', 'CC'), ('Marymount', 'NNP'), ('University', 'NNP'), ("'s", 'POS'), ('student-run', 'JJ'), ('newspaper', 'NN'), ('The', 'DT'), ('Banner', 'NNP'), ('provide', 'JJ'), ('students', 'NNS'), ('with', 'IN'), ('additional', 'JJ'), ('organizational', 'JJ'), ('management', 'NN'), ('experience', 'NN'), ('.', '.'), ('In', 'IN'), ('addition', 'NN'), (',', ','), ('students', 'NNS'), ('have', 'VBP'), ('the', 'DT'), ('opportunity', 'NN'), ('to', 'TO'), ('engage', 'VB'), ('in', 'IN'), ('leadership', 'NN'), ('development', 'NN'), ('opportunities', 'NNS'), ('through', 'IN'), ('participation', 'NN'), ('as', 'IN'), ('an', 'DT'), ('Orientation', 'NNP'), ('Leader', 'NNP'), (',', ','), ('Community', 'NNP'), ('Assistant', 'NNP'), (',', ','), ('or', 'CC'), ('Peer', 'NNP'), ('Mentor', 'NNP'), ('.', '.'), ('==', 'NNP'), ('Community', 'NNP'), ('engagement', 'JJ'), ('==', 'NNP'), ('Each', 'DT'), ('year', 'NN'), (',', ','), ('Marymount', 'NNP'), ('students', 'NNS'), ('provide', 'VBP'), ('more', 'JJR'), ('than', 'IN'), ('16,000', 'CD'), ('hours', 'NNS'), ('of', 'IN'), ('service', 'NN'), ('in', 'IN'), ('the', 'DT'), ('local', 'JJ'), ('and', 'CC'), ('global', 'JJ'), ('community', 'NN'), ('.', '.'), ('From', 'IN'), ('tutoring', 'VBG'), ('children', 'NNS'), (',', ','), ('providing', 'VBG'), ('health-assessment', 'JJ'), ('services', 'NNS'), (',', ','), ('conducting', 'VBG'), ('food', 'NN'), ('drives', 'NNS'), (',', ','), ('and', 'CC'), ('cleaning', 'VBG'), ('up', 'RP'), ('parks', 'NNS'), ('to', 'TO'), ('building', 'VBG'), ('a', 'DT'), ('chapel', 'NN'), ('in', 'IN'), ('the', 'DT'), ('Dominican', 'NNP'), ('Republic', 'NNP'), ('or', 'CC'), ('raising', 'VBG'), ('funds', 'NNS'), ('for', 'IN'), ('a', 'DT'), ('well', 'NN'), ('in', 'IN'), ('Sierra', 'NNP'), ('Leone', 'NNP'), (',', ','), ('Marymount', 'NNP'), ('students', 'NNS'), ('actively', 'RB'), ('seek', 'VBP'), ('out', 'RP'), ('ways', 'NNS'), ('to', 'TO'), ('make', 'VB'), ('a', 'DT'), ('difference.In', 'NN'), ('2018', 'CD'), (',', ','), ('Marymount', 'NNP'), ('University', 'NNP'), ('established', 'VBD'), ('the', 'DT'), ('Saints', 'NNP'), ("'", 'POS'), ('Center', 'NNP'), ('for', 'IN'), ('Service', 'NNP'), ('to', 'TO'), ('implement', 'VB'), ('a', 'DT'), ('framework', 'NN'), ('for', 'IN'), ('sustainable', 'JJ'), ('service', 'NN'), ('programming', 'NN'), ('.', '.'), ('The', 'DT'), ('Center', 'NNP'), ('supports', 'NNS'), (',', ','), ('promotes', 'NNS'), ('and', 'CC'), ('coordinates', 'NNS'), ('service', 'NN'), ('opportunities', 'NNS'), ('across', 'IN'), ('campus', 'NN'), (',', ','), ('leveraging', 'VBG'), ('Marymount', 'NNP'), ('University', 'NNP'), ("'s", 'POS'), ('commitment', 'NN'), ('to', 'TO'), ('service', 'NN'), ('and', 'CC'), ('providing', 'VBG'), ('further', 'JJ'), ('opportunities', 'NNS'), ('for', 'IN'), ('Marymount', 'NNP'), ("'s", 'POS'), ('students', 'NNS'), ('and', 'CC'), ('faculty', 'NN'), ('to', 'TO'), ('work', 'VB'), ('together', 'RB'), ('on', 'IN'), ('service', 'NN'), ('projects', 'NNS'), (',', ','), ('both', 'DT'), ('inside', 'IN'), ('and', 'CC'), ('outside', 'IN'), ('the', 'DT'), ('classroom', 'NN'), ('.', '.'), ('==', 'JJ'), ('Awards', 'NNPS'), ('and', 'CC'), ('acknowledgments', 'NNS'), ('==', 'VBP'), ('Marymount', 'NNP'), ('University', 'NNP'), ('has', 'VBZ'), ('earned', 'VBN'), ('multiple', 'JJ'), ('inclusions', 'NNS'), ('in', 'IN'), ('U.S.', 'NNP'), ('News', 'NNP'), ('&', 'CC'), ('World', 'NNP'), ('Report', 'NNP'), ("'s", 'POS'), ('2021', 'CD'), ('Best', 'NNP'), ('Colleges', 'NNPS'), ('Rankings', 'NNP'), (':', ':'), ('#', '#'), ('1', 'CD'), ('for', 'IN'), ('Most', 'JJS'), ('International', 'NNP'), ('Students', 'NNP'), ('(', '('), ('#', '#'), ('2', 'CD'), ('in', 'IN'), ('2020', 'CD'), (')', ')'), ('#', '#'), ('2', 'CD'), ('for', 'IN'), ('Campus', 'NNP'), ('Ethnic', 'NNP'), ('Diversity', 'NNP'), ('(', '('), ('#', '#'), ('3', 'CD'), ('in', 'IN'), ('2020', 'CD'), (')', ')'), ('Top', 'NNP'), ('Tier', 'NNP'), ('for', 'IN'), ('Regional', 'NNP'), ('Universities', 'NNP'), ('South', 'NNP'), ('Best', 'NNP'), ('Value', 'NNP'), ('School', 'NNP'), ('Best', 'NNP'), ('Colleges', 'NNP'), ('for', 'IN'), ('Veterans', 'NNP'), ('Best', 'NNP'), ('Online', 'NNP'), ('Graduate', 'NNP'), ('Business', 'NNP'), (',', ','), ('Non-MBA', 'NNP'), ('programs', 'NNS'), ('–', 'VBP'), ('CybersecurityAdditional', 'JJ'), ('recognitions', 'NNS'), ('include', 'VBP'), (':', ':'), ('Designated', 'VBN'), ('a', 'DT'), ('Hispanic-Serving', 'JJ'), ('Institution', 'NNP'), ('(', '('), ('HSI', 'NNP'), (')', ')'), ('and', 'CC'), ('certified', 'VBN'), ('by', 'IN'), ('the', 'DT'), ('U.S.', 'NNP'), ('Department', 'NNP'), ('of', 'IN'), ('Education', 'NNP'), ('.', '.'), ('Named', 'VBN'), ('2017', 'CD'), ('Educator', 'NNP'), ('of', 'IN'), ('the', 'DT'), ('Year', 'NN'), ('by', 'IN'), ('The', 'DT'), ('World', 'NNP'), ('Affairs', 'NNPS'), ('Council', 'NNP'), (',', ','), ('Washington', 'NNP'), (',', ','), ('D.C.', 'NNP'), ('==', 'NNP'), ('Notable', 'NNP'), ('alumni', 'NNS'), ('==', 'NNP'), ('Toni', 'NNP'), ('Ardabell', 'NNP'), (',', ','), ('Associate', 'NNP'), ('Chief', 'NNP'), ('of', 'IN'), ('Clinical', 'NNP'), ('Enterprise', 'NNP'), ('for', 'IN'), ('INOVA', 'NNP'), ('Health', 'NNP'), ('System', 'NNP'), ('Lieutenant', 'NNP'), ('General', 'NNP'), ('Steven', 'NNP'), ('Boutelle', 'NNP'), (',', ','), ('former', 'JJ'), ('Chief', 'NNP'), ('Information', 'NNP'), ('Officer', 'NNP'), ('of', 'IN'), ('the', 'DT'), ('U.S.', 'NNP'), ('Army', 'NNP'), ('Yene', 'NNP'), ('Damtew', 'NNP'), (',', ','), ('hairstylist', 'NN'), ('to', 'TO'), ('Michelle', 'NNP'), ('Obama', 'NNP'), ('Cindy', 'NNP'), ('Eckert', 'NNP'), (',', ','), ('Co-Founder', 'NNP'), ('&', 'CC'), ('CEO', 'NNP'), ('of', 'IN'), ('Sprout', 'NNP'), ('Pharmaceuticals', 'NNP'), ('Tonye', 'NNP'), ('Garrick', 'NNP'), (',', ','), ('Nigerian', 'JJ'), ('singer', 'NN'), ('and', 'CC'), ('songwriter', 'NN'), ('Ryan', 'NNP'), ('Hampton', 'NNP'), (',', ','), ('writer', 'NN'), ('and', 'CC'), ('political', 'JJ'), ('activist', 'NN'), ('surrounding', 'VBG'), ('addiction', 'NN'), ('Katherine', 'NNP'), ('Kallinis', 'NNP'), ('Berman', 'NNP'), (',', ','), ('co-founder', 'NN'), ('of', 'IN'), ('Georgetown', 'NNP'), ('Cupcake', 'NNP'), ('and', 'CC'), ('star', 'NN'), ('of', 'IN'), ('TLC', 'NNP'), ("'s", 'POS'), ('DC', 'NNP'), ('Cupcakes', 'NNP'), ('Gregg', 'NNP'), ('McCrary', 'NNP'), (',', ','), ('author', 'NN'), ('and', 'CC'), ('former', 'JJ'), ('FBI', 'NNP'), ('criminal', 'NN'), ('profiler', 'NN'), ('Noor', 'NNP'), ('Rashid', 'NNP'), ('Al', 'NNP'), ('Khalifa', 'NNP'), (',', ','), ('founder', 'NN'), (',', ','), ('CEO', 'NNP'), ('and', 'CC'), ('designer', 'NN'), ('of', 'IN'), ('fashion', 'NN'), ('brand', 'NN'), ('Noon', 'NNP'), ('By', 'IN'), ('Noor', 'NNP'), ('Rashad', 'NNP'), ('Robinson', 'NNP'), (',', ','), ('President', 'NNP'), ('of', 'IN'), ('Color', 'NNP'), ('of', 'IN'), ('Change', 'NNP'), ('Timothy', 'NNP'), ('Sheehan', 'NNP'), (',', ','), ('co-founder', 'NN'), ('and', 'CC'), ('CEO', 'NNP'), ('of', 'IN'), ('Greenlight', 'NNP'), ('Financial', 'NNP'), ('Technology', 'NNP'), ('Michael', 'NNP'), ('D.', 'NNP'), ('Smith', 'NNP'), (',', ','), ('Executive', 'NNP'), ('Director', 'NNP'), ('of', 'IN'), ('the', 'DT'), ('My', 'NNP'), ('Brother', 'NNP'), ('’', 'NNP'), ('s', 'VBZ'), ('Keeper', 'NNP'), ('(', '('), ('MBK', 'NNP'), (')', ')'), ('Alliance', 'NNP'), (',', ','), ('an', 'DT'), ('organization', 'NN'), ('of', 'IN'), ('the', 'DT'), ('Obama', 'NNP'), ('Foundation', 'NNP'), ('Dr.', 'NNP'), ('Beverly', 'NNP'), ('Stallings-Johnson', 'NNP'), (',', ','), ('Chief', 'NNP'), ('Diversity', 'NNP'), (',', ','), ('Equity', 'NNP'), ('&', 'CC'), ('Inclusion', 'NNP'), ('Officer', 'NNP'), ('of', 'IN'), ('The', 'DT'), ('Wendy', 'NNP'), ("'s", 'POS'), ('Company', 'NNP'), ('Tyler', 'NNP'), ('Wisler', 'NNP'), (',', ','), ('HGTV', 'NNP'), ('Star', 'NNP'), ('and', 'CC'), ('interior', 'JJ'), ('designer', 'NN'), ('Doreen', 'NNP'), ('Wonda', 'NNP'), ('Johnson', 'NNP'), (',', ','), ('member', 'NN'), ('of', 'IN'), ('the', 'DT'), ('New', 'NNP'), ('Mexico', 'NNP'), ('House', 'NNP'), ('of', 'IN'), ('Representatives', 'NNPS'), ('Mia', 'NNP'), ('Yim', 'NNP'), (',', ','), ('professional', 'JJ'), ('wrestler', 'NN'), ('==', 'NNP'), ('References', 'NNP'), ('==', 'NNP'), ('==', 'NNP'), ('External', 'NNP'), ('links', 'NNS'), ('==', 'VBP'), ('Official', 'NNP'), ('website', 'NN')]

Precision: 0.750

Recall: 0.900

F-Measure: 0.760