

NLP-01

```
import nltk
import string
import docx
import matplotlib.pyplot as plt
from collections import Counter
from nltk.corpus import stopwords
from nltk.tokenize import word_tokenize
from nltk.stem import PorterStemmer, WordNetLemmatizer
from nltk.util import ngrams
from nltk import pos_tag

nltk.download('punkt')
nltk.download('stopwords')
nltk.download('wordnet')
nltk.download('omw-1.4')
nltk.download('averaged_perceptron_tagger')

[nltk_data] Downloading package punkt to
[nltk_data] C:\Users\Ritesh\AppData\Roaming\nltk_data...
[nltk_data] Package punkt is already up-to-date!
[nltk_data] Downloading package stopwords to
[nltk_data] C:\Users\Ritesh\AppData\Roaming\nltk_data...
[nltk_data] Package stopwords is already up-to-date!
[nltk_data] Downloading package wordnet to
[nltk_data] C:\Users\Ritesh\AppData\Roaming\nltk_data...
[nltk_data] Package wordnet is already up-to-date!
[nltk_data] Downloading package omw-1.4 to
[nltk_data] C:\Users\Ritesh\AppData\Roaming\nltk_data...
[nltk_data] Package omw-1.4 is already up-to-date!
[nltk_data] Downloading package averaged_perceptron_tagger to
[nltk_data] C:\Users\Ritesh\AppData\Roaming\nltk_data...
[nltk_data] Package averaged_perceptron_tagger is already up-to-
[nltk_data] date!

True

def trim_text(text):
    return text.strip()

def convert_case(text, to_lower=True):
    return text.lower() if to_lower else text.upper()

def tokenize_text(text):
    return word_tokenize(text)

def remove_stopwords(tokens):
    stop_words = set(stopwords.words('english'))
    return [word for word in tokens if word.lower() not in stop_words]
```

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def remove_punctuation(tokens):
    return [word for word in tokens if word not in string.punctuation]

def stem_and_lemmatize(tokens):
    ps = PorterStemmer()
    lemmatizer = WordNetLemmatizer()
    stemmed = [ps.stem(word) for word in tokens]
    lemmatized = [lemmatizer.lemmatize(word) for word in tokens]
    return stemmed, lemmatized

def create_ngrams(tokens, n=2):
    return list(ngrams(tokens, n))

def load_docx(file_path):
    doc = docx.Document(file_path)
    full_text = []
    for para in doc.paragraphs:
        full_text.append(para.text)
    return '\n'.join(full_text)

def count_unique_tokens(text):
    tokens = word_tokenize(text)
    return len(set(tokens))

def count_punctuation(text):
    return sum(1 for char in text if char in string.punctuation)

def plot_pos_distribution(text):
    tokens = word_tokenize(text)
    pos_tags = pos_tag(tokens)
    pos_count = Counter(tag for word, tag in pos_tags)
    plt.figure(figsize=(10, 6))
    plt.bar(pos_count.keys(), pos_count.values())
    plt.xlabel('POS Tags')
    plt.ylabel('Frequency')
    plt.title('Distribution of POS Tags')
    plt.xticks(rotation=45)
    plt.show()

def count_unique_lemmas(text):
    tokens = word_tokenize(text)
    lemmatizer = WordNetLemmatizer()
    lemmatized_tokens = [lemmatizer.lemmatize(word) for word in
tokens]
    return len(set(lemmatized_tokens))

def plot_stopwords_distribution(text):
    tokens = word_tokenize(text)
    stop_words = set(stopwords.words('english'))
    stopword_tokens = [word for word in tokens if word.lower() in
stop_words]

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stopword_count = Counter(stopword_tokens)
plt.figure(figsize=(15, 6))
plt.bar(stopword_count.keys(), stopword_count.values())
plt.xlabel('Stopwords')
plt.ylabel('Frequency')
plt.title('Distribution of Stopwords')
plt.xticks(rotation=45)
plt.show()

```

```
file_path = "New DOCX Document.docx"
```

```
text = load_docx(file_path)
```

```
unique_tokens = count_unique_tokens(text)
```

```
punctuation_count = count_punctuation(text)
```

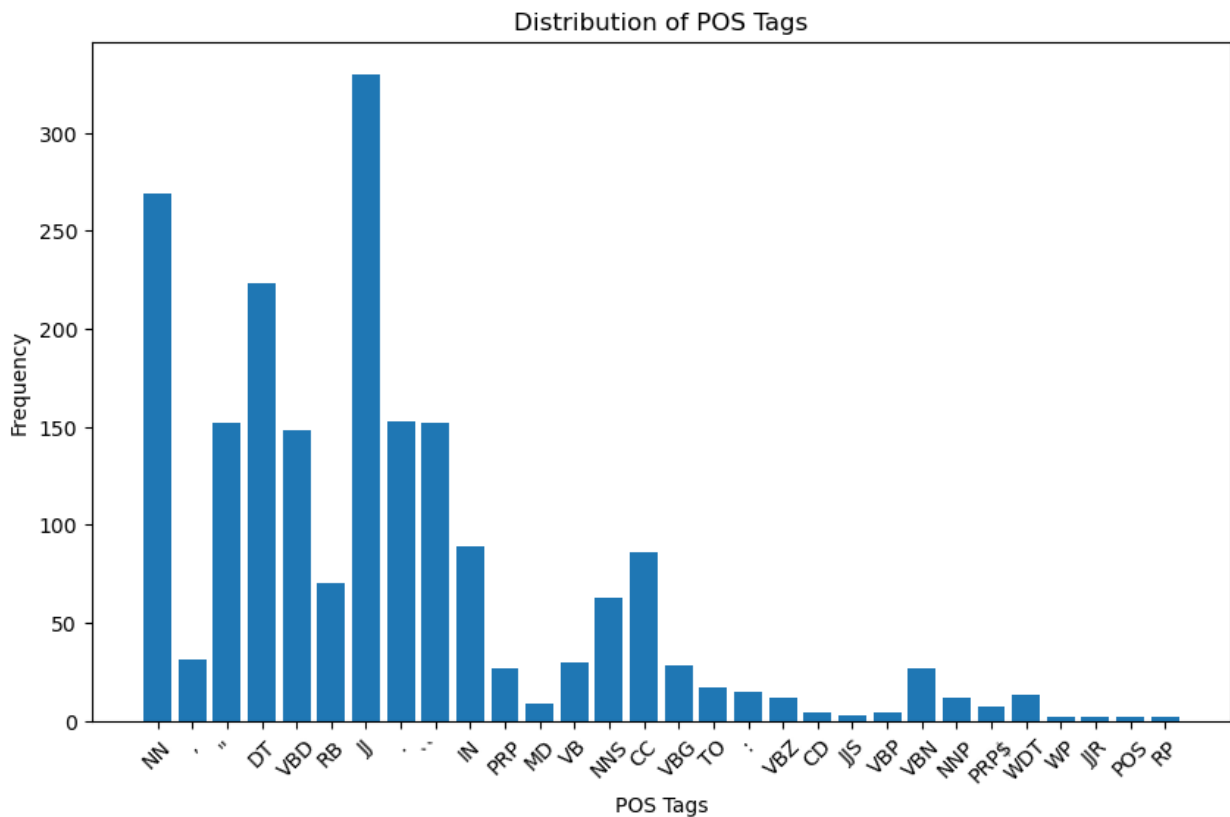
```
print("Number of unique tokens in text:", unique_tokens)
```

```
print("Number of punctuation characters:", punctuation_count)
```

```
Number of unique tokens in text: 496
```

```
Number of punctuation characters: 680
```

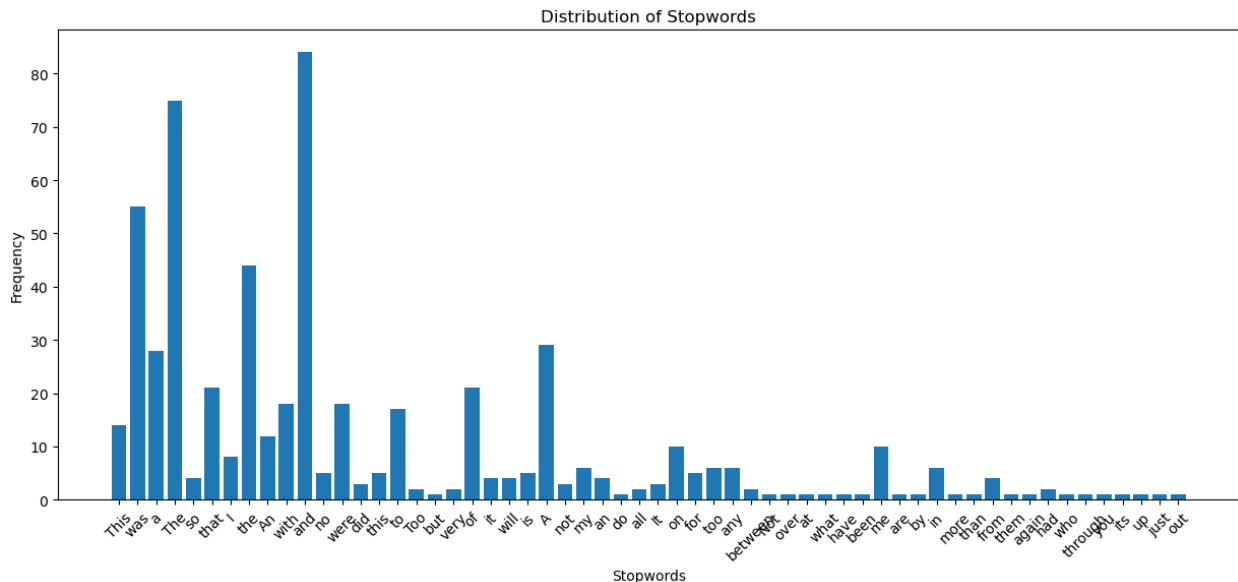
```
plot_pos_distribution(text)
```



```
unique_lemmas = count_unique_lemmas(text)
print("Number of unique lemmas in text:", unique_lemmas)
```

Number of unique lemmas in text: 487

```
plot_stopwords_distribution(text)
```



```
text = trim_text(text)
text_lower = convert_case(text)
tokens = tokenize_text(text_lower)
tokens_no_stopwords = remove_stopwords(tokens)
tokens_no_punctuation = remove_punctuation(tokens_no_stopwords)
stemmed_tokens, lemmatized_tokens =
stem_and_lemmatize(tokens_no_punctuation)
bigrams = create_ngrams(tokens_no_punctuation)

print("Trimmed text:", text)
```

Trimmed text: review,label

"This movie was absolutely wonderful, a masterpiece!",1

"The acting was so bad that I couldn't watch till the end.",0

"An engaging story with fantastic visuals and great pacing.",1

"The plot made no sense, and the characters were dull.",0

"The director did a phenomenal job bringing this to life.",1

"Too much hype but very little substance; disappointing.",0

"I loved every second of it; will definitely recommend!",1

"This is one of the worst films I've ever seen.",0

"The music score and cinematography were stunning.",1

"Awful script, bad dialogue, and poor character development.",0

"A heartwarming tale with a perfect blend of humor and drama.",1

"Boring and predictable, not worth my time.",0

"An emotional rollercoaster with top-notch performances.",1

"This movie was a waste of two hours of my life.",0
"A cinematic gem! Incredible acting and gripping plot.",1
"The editing was messy, and the pacing was painfully slow.",0
"An uplifting and inspiring story that touched my heart.",1
"Poor direction and an uninspired storyline; do not watch.",0
"Beautifully crafted and well-acted; a true classic!",1
"The humor felt forced, and the jokes were unfunny.",0
"A remarkable film that exceeded all my expectations!",1
"It dragged on for too long and lacked any real climax.",0
"The chemistry between the leads was fantastic.",1
"Not even halfway decent; poorly executed.",0
"A delightful experience that I will cherish forever.",1
"The dialogue was cringeworthy, and the story lacked depth.",0
"Perfectly captures the essence of the genre; well done!",1
"This is an example of style over substance; avoid it.",0
"Engrossing, emotional, and deeply satisfying to watch.",1
"The special effects were mediocre at best; disappointing.",0
"A refreshing and unique take on a classic tale.",1
"Predictable plot twists ruined what could have been a good film.",0
"Every aspect of this movie screams quality and excellence.",1
"The acting was wooden, and the plot was full of clichés.",0
"An unforgettable experience; one of the best movies this year.",1
"Extremely overacted with no redeeming qualities.",0
"The narrative was intricate and kept me hooked throughout.",1
"This film is proof that sequels aren't always a good idea.",0
"A mesmerizing performance by the lead; truly exceptional!",1
"Repetitive and unimaginative; felt like a bad rehash.",0
"A thoroughly enjoyable film with a solid script.",1
"It felt like the filmmakers were not even trying.",0
"Touching, heartfelt, and beautifully made.",1
"The entire movie was one big disappointment.",0
"A rare gem in modern cinema; a must-watch!",1
"The characters were unlikable, and the story was uninteresting.",0
"A stunning visual treat with a powerful message.",1
"It was nothing more than a cash grab; completely forgettable.",0
"The suspense kept me on the edge of my seat.",1
"This movie lacked any originality and felt generic.",0
"A thought-provoking and deeply emotional journey.",1
"The acting was subpar, and the visuals were uninspiring.",0
"This film was a visual masterpiece with incredible storytelling.",1
"The movie lacked depth and was boring from start to finish.",0
"A fantastic blend of humor, action, and emotion!",1
"The pacing was too slow, and the plot was paper-thin.",0
"The actors delivered stunning performances throughout.",1
"The dialogue felt forced and unnatural in every scene.",0
"Absolutely loved the creativity and innovation in this film.",1
"This was a predictable and uninspired production.",0
"The soundtrack perfectly complemented the story and visuals.",1
"The editing was choppy, making the story hard to follow.",0

"Every detail was carefully crafted, making it a joy to watch.",1
"This movie is forgettable and lacks any lasting impact.",0
"An engaging storyline that kept me hooked till the very end.",1
"The special effects were overused and added no value.",0
"An emotional journey that left me teary-eyed.",1
"The characters were flat, and I couldn't connect with them.",0
"A brilliant script combined with stellar direction.",1
"The movie felt like a cheap knock-off of better films.",0
"The chemistry between the leads was truly electric.",1
"This film was overhyped and a massive disappointment.",0
"A cinematic masterpiece that I would watch again.",1
"The humor fell flat, and the jokes were awkward.",0
"An innovative plot that was executed brilliantly.",1
"The acting was stiff, and the story had too many plot holes.",0
"Heartwarming and beautifully directed; a must-watch!",1
"The cinematography was bland and uninspired.",0
"A perfect film for anyone who loves thrilling adventures.",1
"The movie was too predictable and lacked originality.",0
"The twists in the plot were unexpected and exciting.",1
"The film dragged on and felt like a chore to sit through.",0
"The visuals were breathtaking and left me in awe.",1
"The characters made irrational decisions, ruining the story.",0
"A charming and delightful experience for the whole family.",1
"The action scenes were chaotic and poorly executed.",0
"An unforgettable movie with a powerful message.",1
"Too many clichés made the movie feel stale.",0
"The dialogue was sharp and added depth to the story.",1
"The ending was abrupt and left many questions unanswered.",0
"A fun, lighthearted film that will leave you smiling.",1
"The acting felt amateurish and lacked conviction.",0
"The plot was well-constructed and flowed seamlessly.",1
"The movie was dull and failed to grab my attention.",0
"A refreshing take on a well-known genre; truly unique.",1
"This was a formulaic film with nothing new to offer.",0
"The characters' growth throughout the story was inspiring.",1
"The plot was convoluted and hard to follow.",0
"An edge-of-your-seat thriller that delivers on all fronts.",1
"The sound design was terrible and distracted from the movie.",0
"A thought-provoking film with a lot of heart.",1
"This movie was painfully boring and felt overly long.",0
"The visuals and sound combined to create an immersive experience.",1
"The plot lacked coherence and left me confused.",0
"A dazzling display of creativity and passion.",1
"This was a lazy production with no redeeming qualities.",0
"The emotional depth of this movie is unmatched.",1
"The movie relied too heavily on cheap jump scares.",0
"A hilarious comedy with moments of genuine emotion.",1
"The characters were poorly written and one-dimensional.",0
"The ending tied everything together beautifully.",1

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"The cinematography felt outdated and uninspired.",0
"The performances were nuanced and deeply moving.",1
"The movie failed to deliver on its promising premise.",0
"A magical story that transported me to another world.",1
"The visuals couldn't make up for the weak storyline.",0
"Every scene was crafted with so much care and attention.",1
"The humor was immature and added nothing to the plot.",0
"A perfect mix of action, drama, and suspense.",1
"The soundtrack was forgettable and didn't enhance the scenes.",0
"The film explored complex themes in a relatable way.",1
"The movie was riddled with technical issues and bad acting.",0
"A heartfelt movie that will stay with me for a long time.",1
"The narrative was fragmented and lacked focus.",0
"The pacing was just right, and the tension was palpable.",1
"The story was generic and lacked any surprises.",0
"A powerful drama that leaves a lasting impression.",1
"The characters' motivations were unclear and poorly explained.",0
"The vibrant colors and visuals made the film stand out.",1
"The writing was lazy and relied on too many tropes.",0
"An inspiring film that left me feeling uplifted.",1
"The film was unnecessarily violent and lacked substance.",0
"The humor was witty and well-timed, enhancing the story.",1
"The dialogue was cheesy and made the characters seem fake.",0
"A captivating mystery with plenty of twists and turns.",1
"The story dragged on without any real payoff.",0
"An emotionally charged film that exceeded expectations.",1
"The acting was inconsistent and detracted from the experience.",0
"A true gem that highlights the power of storytelling.",1
"The visuals were lackluster and didn't add much to the film.",0
"A rollercoaster of emotions from start to finish.",1
"The characters were forgettable, and the plot was thin.",0
"An ambitious film that took risks and succeeded.",1
"The movie felt hollow and lacked any real substance.",0
"A fun and entertaining ride that I thoroughly enjoyed.",1
"This film was so dull I almost fell asleep.",0
"The attention to detail made the world feel alive.",1
"The ending was unsatisfying and left me frustrated.",0
"A bold and daring movie that pushed boundaries.",1
"The plot was so thin that it barely held the movie together.",0
"The performances elevated an already excellent script.",1
"The film was predictable and had no surprises.",0
```

```
print("Lower case text:", text_lower)
```

```
Lower case text: review,label
```

```
"this movie was absolutely wonderful, a masterpiece!",1
"the acting was so bad that i couldn't watch till the end.",0
"an engaging story with fantastic visuals and great pacing.",1
"the plot made no sense, and the characters were dull.",0
"the director did a phenomenal job bringing this to life.",1
```

"too much hype but very little substance; disappointing.",0
"i loved every second of it; will definitely recommend!",1
"this is one of the worst films i've ever seen.",0
"the music score and cinematography were stunning.",1
"awful script, bad dialogue, and poor character development.",0
"a heartwarming tale with a perfect blend of humor and drama.",1
"boring and predictable, not worth my time.",0
"an emotional rollercoaster with top-notch performances.",1
"this movie was a waste of two hours of my life.",0
"a cinematic gem! incredible acting and gripping plot.",1
"the editing was messy, and the pacing was painfully slow.",0
"an uplifting and inspiring story that touched my heart.",1
"poor direction and an uninspired storyline; do not watch.",0
"beautifully crafted and well-acted; a true classic!",1
"the humor felt forced, and the jokes were unfunny.",0
"a remarkable film that exceeded all my expectations!",1
"it dragged on for too long and lacked any real climax.",0
"the chemistry between the leads was fantastic.",1
"not even halfway decent; poorly executed.",0
"a delightful experience that i will cherish forever.",1
"the dialogue was cringeworthy, and the story lacked depth.",0
"perfectly captures the essence of the genre; well done!",1
"this is an example of style over substance; avoid it.",0
"engrossing, emotional, and deeply satisfying to watch.",1
"the special effects were mediocre at best; disappointing.",0
"a refreshing and unique take on a classic tale.",1
"predictable plot twists ruined what could have been a good film.",0
"every aspect of this movie screams quality and excellence.",1
"the acting was wooden, and the plot was full of clichés.",0
"an unforgettable experience; one of the best movies this year.",1
"extremely overacted with no redeeming qualities.",0
"the narrative was intricate and kept me hooked throughout.",1
"this film is proof that sequels aren't always a good idea.",0
"a mesmerizing performance by the lead; truly exceptional!",1
"repetitive and unimaginative; felt like a bad rehash.",0
"a thoroughly enjoyable film with a solid script.",1
"it felt like the filmmakers were not even trying.",0
"touching, heartfelt, and beautifully made.",1
"the entire movie was one big disappointment.",0
"a rare gem in modern cinema; a must-watch!",1
"the characters were unlikable, and the story was uninteresting.",0
"a stunning visual treat with a powerful message.",1
"it was nothing more than a cash grab; completely forgettable.",0
"the suspense kept me on the edge of my seat.",1
"this movie lacked any originality and felt generic.",0
"a thought-provoking and deeply emotional journey.",1
"the acting was subpar, and the visuals were uninspiring.",0
"this film was a visual masterpiece with incredible storytelling.",1
"the movie lacked depth and was boring from start to finish.",0

"a fantastic blend of humor, action, and emotion!",1
"the pacing was too slow, and the plot was paper-thin.",0
"the actors delivered stunning performances throughout.",1
"the dialogue felt forced and unnatural in every scene.",0
"absolutely loved the creativity and innovation in this film.",1
"this was a predictable and uninspired production.",0
"the soundtrack perfectly complemented the story and visuals.",1
"the editing was choppy, making the story hard to follow.",0
"every detail was carefully crafted, making it a joy to watch.",1
"this movie is forgettable and lacks any lasting impact.",0
"an engaging storyline that kept me hooked till the very end.",1
"the special effects were overused and added no value.",0
"an emotional journey that left me teary-eyed.",1
"the characters were flat, and i couldn't connect with them.",0
"a brilliant script combined with stellar direction.",1
"the movie felt like a cheap knock-off of better films.",0
"the chemistry between the leads was truly electric.",1
"this film was overhyped and a massive disappointment.",0
"a cinematic masterpiece that i would watch again.",1
"the humor fell flat, and the jokes were awkward.",0
"an innovative plot that was executed brilliantly.",1
"the acting was stiff, and the story had too many plot holes.",0
"heartwarming and beautifully directed; a must-watch!",1
"the cinematography was bland and uninspired.",0
"a perfect film for anyone who loves thrilling adventures.",1
"the movie was too predictable and lacked originality.",0
"the twists in the plot were unexpected and exciting.",1
"the film dragged on and felt like a chore to sit through.",0
"the visuals were breathtaking and left me in awe.",1
"the characters made irrational decisions, ruining the story.",0
"a charming and delightful experience for the whole family.",1
"the action scenes were chaotic and poorly executed.",0
"an unforgettable movie with a powerful message.",1
"too many clichés made the movie feel stale.",0
"the dialogue was sharp and added depth to the story.",1
"the ending was abrupt and left many questions unanswered.",0
"a fun, lighthearted film that will leave you smiling.",1
"the acting felt amateurish and lacked conviction.",0
"the plot was well-constructed and flowed seamlessly.",1
"the movie was dull and failed to grab my attention.",0
"a refreshing take on a well-known genre; truly unique.",1
"this was a formulaic film with nothing new to offer.",0
"the characters' growth throughout the story was inspiring.",1
"the plot was convoluted and hard to follow.",0
"an edge-of-your-seat thriller that delivers on all fronts.",1
"the sound design was terrible and distracted from the movie.",0
"a thought-provoking film with a lot of heart.",1
"this movie was painfully boring and felt overly long.",0
"the visuals and sound combined to create an immersive experience.",1

"the plot lacked coherence and left me confused.",0
"a dazzling display of creativity and passion.",1
"this was a lazy production with no redeeming qualities.",0
"the emotional depth of this movie is unmatched.",1
"the movie relied too heavily on cheap jump scares.",0
"a hilarious comedy with moments of genuine emotion.",1
"the characters were poorly written and one-dimensional.",0
"the ending tied everything together beautifully.",1
"the cinematography felt outdated and uninspired.",0
"the performances were nuanced and deeply moving.",1
"the movie failed to deliver on its promising premise.",0
"a magical story that transported me to another world.",1
"the visuals couldn't make up for the weak storyline.",0
"every scene was crafted with so much care and attention.",1
"the humor was immature and added nothing to the plot.",0
"a perfect mix of action, drama, and suspense.",1
"the soundtrack was forgettable and didn't enhance the scenes.",0
"the film explored complex themes in a relatable way.",1
"the movie was riddled with technical issues and bad acting.",0
"a heartfelt movie that will stay with me for a long time.",1
"the narrative was fragmented and lacked focus.",0
"the pacing was just right, and the tension was palpable.",1
"the story was generic and lacked any surprises.",0
"a powerful drama that leaves a lasting impression.",1
"the characters' motivations were unclear and poorly explained.",0
"the vibrant colors and visuals made the film stand out.",1
"the writing was lazy and relied on too many tropes.",0
"an inspiring film that left me feeling uplifted.",1
"the film was unnecessarily violent and lacked substance.",0
"the humor was witty and well-timed, enhancing the story.",1
"the dialogue was cheesy and made the characters seem fake.",0
"a captivating mystery with plenty of twists and turns.",1
"the story dragged on without any real payoff.",0
"an emotionally charged film that exceeded expectations.",1
"the acting was inconsistent and detracted from the experience.",0
"a true gem that highlights the power of storytelling.",1
"the visuals were lackluster and didn't add much to the film.",0
"a rollercoaster of emotions from start to finish.",1
"the characters were forgettable, and the plot was thin.",0
"an ambitious film that took risks and succeeded.",1
"the movie felt hollow and lacked any real substance.",0
"a fun and entertaining ride that i thoroughly enjoyed.",1
"this film was so dull i almost fell asleep.",0
"the attention to detail made the world feel alive.",1
"the ending was unsatisfying and left me frustrated.",0
"a bold and daring movie that pushed boundaries.",1
"the plot was so thin that it barely held the movie together.",0
"the performances elevated an already excellent script.",1
"the film was predictable and had no surprises.",0

```
print("Tokens:", tokens)
```

```
Tokens: ['review', ',', 'label', '"', 'this', 'movie', 'was',  
'absolutely', 'wonderful', ',', 'a', 'masterpiece', '!', '\'', '1',  
"', 'the', 'acting', 'was', 'so', 'bad', 'that', 'i', 'could',  
'n't', 'watch', 'till', 'the', 'end', '.', '\'', '0', '"', 'an',  
'engaging', 'story', 'with', 'fantastic', 'visuals', 'and', 'great',  
'pacing', '.', '\'', '1', '"', 'the', 'plot', 'made', 'no', 'sense',  
, 'and', 'the', 'characters', 'were', 'dull', '.', '\'', '0',  
"', 'the', 'director', 'did', 'a', 'phenomenal', 'job', 'bringing',  
'this', 'to', 'life', '.', '\'', '1', '"', 'too', 'much', 'hype',  
'but', 'very', 'little', 'substance', ';', 'disappointing', '.', '\'',  
'0', '"', 'i', 'loved', 'every', 'second', 'of', 'it', ';', 'will',  
'definitely', 'recommend', '!', '\'', '1', '"', 'this', 'is', 'one',  
'of', 'the', 'worst', 'films', 'i', "'ve", 'ever', 'seen', '.', '\'',  
'0', '"', 'the', 'music', 'score', 'and', 'cinematography', 'were',  
'stunning', '.', '\'', '1', '"', 'awful', 'script', ',', 'bad',  
'dialogue', ',', 'and', 'poor', 'character', 'development', '.', '\'',  
'0', '"', 'a', 'heartwarming', 'tale', 'with', 'a', 'perfect',  
'blend', 'of', 'humor', 'and', 'drama', '.', '\'', '1', '"',  
'boring', 'and', 'predictable', ',', 'not', 'worth', 'my', 'time',  
, '\'', '0', '"', 'an', 'emotional', 'rollercoaster', 'with',  
'top-notch', 'performances', '.', '\'', '1', '"', 'this', 'movie',  
'was', 'a', 'waste', 'of', 'two', 'hours', 'of', 'my', 'life', '.',  
'\'', '0', '"', 'a', 'cinematic', 'gem', '!', 'incredible',  
'acting', 'and', 'gripping', 'plot', '.', '\'', '1', '"', 'the',  
'editing', 'was', 'messy', ',', 'and', 'the', 'pacing', 'was',  
'painfully', 'slow', '.', '\'', '0', '"', 'an', 'uplifting', 'and',  
'inspiring', 'story', 'that', 'touched', 'my', 'heart', '.', '\'',  
'1', '"', 'poor', 'direction', 'and', 'an', 'uninspired',  
'storyline', ';', 'do', 'not', 'watch', '.', '\'', '0', '"',  
'beautifully', 'crafted', 'and', 'well-acted', ';', 'a', 'true',  
'classic', '!', '\'', '1', '"', 'the', 'humor', 'felt', 'forced',  
, 'and', 'the', 'jokes', 'were', 'unfunny', '.', '\'', '0', '"',  
'a', 'remarkable', 'film', 'that', 'exceeded', 'all', 'my',  
'expectations', '!', '\'', '1', '"', 'it', 'dragged', 'on', 'for',  
'too', 'long', 'and', 'lacked', 'any', 'real', 'climax', '.', '\'',  
'0', '"', 'the', 'chemistry', 'between', 'the', 'leads', 'was',  
'fantastic', '.', '\'', '1', '"', 'not', 'even', 'halfway',  
'decent', ';', 'poorly', 'executed', '.', '\'', '0', '"', 'a',  
'delightful', 'experience', 'that', 'i', 'will', 'cherish', 'forever',  
, '\'', '1', '"', 'the', 'dialogue', 'was', 'cringeworthy', ',',  
'and', 'the', 'story', 'lacked', 'depth', '.', '\'', '0', '"',  
'perfectly', 'captures', 'the', 'essence', 'of', 'the', 'genre', ';',  
'well', 'done', '!', '\'', '1', '"', 'this', 'is', 'an', 'example',  
'of', 'style', 'over', 'substance', ';', 'avoid', 'it', '.', '\'',  
'0', '"', 'engrossing', ',', 'emotional', ',', 'and', 'deeply',  
'satisfying', 'to', 'watch', '.', '\'', '1', '"', 'the', 'special',  
'effects', 'were', 'mediocre', 'at', 'best', ';', 'disappointing',  
, '\'', '0', '"', 'a', 'refreshing', 'and', 'unique', 'take',
```

'on', 'a', 'classic', 'tale', '.', '\'', '1', '"', 'predictable',
'plot', 'twists', 'ruined', 'what', 'could', 'have', 'been', 'a',
'good', 'film', '.', '\'', '0', '"', 'every', 'aspect', 'of',
'this', 'movie', 'screams', 'quality', 'and', 'excellence', '.', '\'',
'1', '"', 'the', 'acting', 'was', 'wooden', '.', '\'', 'and', 'the',
'plot', 'was', 'full', 'of', 'clichés', '.', '\'', '0', '"', 'an',
'unforgettable', 'experience', ';;', 'one', 'of', 'the', 'best',
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'made', 'film', 'stand', '.', '\', '1', '""', 'writing', 'lazy',
'relied', 'many', 'tropes', '.', '\', '0', '""', 'inspiring',

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'film', 'left', 'feeling', 'uplifted', '.', '\'', '1', '"', 'film',
'unecessarily', 'violent', 'lacked', 'substance', '.', '\'', '0',
'",', 'humor', 'witty', 'well-timed', ',', 'enhancing', 'story', '.',
'\'', '1', '"', 'dialogue', 'cheesy', 'made', 'characters', 'seem',
'fake', '.', '\'', '0', '"', 'captivating', 'mystery', 'plenty',
'twists', 'turns', '.', '\'', '1', '"', 'story', 'dragged',
'without', 'real', 'payoff', '.', '\'', '0', '"', 'emotionally',
'charged', 'film', 'exceeded', 'expectations', '.', '\'', '1', '"',
'acting', 'inconsistent', 'detracted', 'experience', '.', '\'', '0',
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'1', '"', 'visuals', 'lackluster', "n't", 'add', 'much', 'film',
',', '\'', '0', '"', 'rollercoaster', 'emotions', 'start', 'finish',
',', '\'', '1', '"', 'characters', 'forgettable', ',', 'plot',
'thin', '.', '\'', '0', '"', 'ambitious', 'film', 'took', 'risks',
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'lacked', 'real', 'substance', '.', '\'', '0', '"', 'fun',
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'\'', '1', '"', 'ending', 'unsatisfying', 'left', 'frustrated', '.',
'\'', '0', '"', 'bold', 'daring', 'movie', 'pushed', 'boundaries',
',', '\'', '1', '"', 'plot', 'thin', 'barely', 'held', 'movie',
'together', '.', '\'', '0', '"', 'performances', 'elevated',
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'predictable', 'surprises', '.', '\'', '0']
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print("Tokens without punctuation:", tokens_no_punctuation)
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Tokens without punctuation: ['review', 'label', '"', 'movie',
'absolutely', 'wonderful', 'masterpiece', '\'', '1', '"', 'acting',
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'engaging', 'story', 'fantastic', 'visuals', 'great', 'pacing', '\'',
'1', '"', 'plot', 'made', 'sense', 'characters', 'dull', '\'', '0',
'",', 'director', 'phenomenal', 'job', 'bringing', 'life', '\'', '1',
'",', 'much', 'hype', 'little', 'substance', 'disappointing', '\'',
'0', '"', 'loved', 'every', 'second', 'definitely', 'recommend',
'\'', '1', '"', 'one', 'worst', 'films', "ve", 'ever', 'seen',
'\'', '0', '"', 'music', 'score', 'cinematography', 'stunning',
'\'', '1', '"', 'awful', 'script', 'bad', 'dialogue', 'poor',
'character', 'development', '\'', '0', '"', 'heartwarming', 'tale',
'perfect', 'blend', 'humor', 'drama', '\'', '1', '"', 'boring',
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'1', '"', 'editing', 'messy', 'pacing', 'painfully', 'slow', '\'',
'0', '"', 'uplifting', 'inspiring', 'story', 'touched', 'heart',
'\'', '1', '"', 'poor', 'direction', 'uninspired', 'storyline',
'watch', '\'', '0', '"', 'beautifully', 'crafted', 'well-acted',
'true', 'classic', '\'', '1', '"', 'humor', 'felt', 'forced',
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'jokes', 'unfunny', '\'', '0', ' ', 'remarkable', 'film',
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'forever', '\'', '1', ' ', 'dialogue', 'cringeworthy', 'story',
'lacked', 'depth', '\'', '0', ' ', 'perfectly', 'captures',
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'film', '\'', '0', ' ', 'every', 'aspect', 'movie', 'screams',
'quality', 'excellence', '\'', '1', ' ', 'acting', 'wooden', 'plot',
'full', 'clichés', '\'', '0', ' ', 'unforgettable', 'experience',
'one', 'best', 'movies', 'year', '\'', '1', ' ', 'extremely',
'overacted', 'redeeming', 'qualities', '\'', '0', ' ', 'narrative',
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'rehash', '\'', '0', ' ', 'thoroughly', 'enjoyable', 'film',
'solid', 'script', '\'', '1', ' ', 'felt', 'like', 'filmmakers',
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'beautifully', 'made', '\'', '1', ' ', 'entire', 'movie', 'one',
'big', 'disappointment', '\'', '0', ' ', 'rare', 'gem', 'modern',
'cinema', 'must-watch', '\'', '1', ' ', 'characters', 'unlikable',
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provoking', 'deeply', 'emotional', 'journey', '\'', '1', ' ',
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' ', '1', ' ', 'dialogue', 'felt', 'forced', 'unnatural', 'every',
'scene', '\'', '0', ' ', 'absolutely', 'loved', 'creativity',
'innovation', 'film', '\'', '1', ' ', 'predictable', 'uninspired',
'production', '\'', '0', ' ', 'soundtrack', 'perfectly',
'complemented', 'story', 'visuals', '\'', '1', ' ', 'editing',
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' ', '1', ' ', 'movie', 'forgettable', 'lacks', 'lasting',
'impact', '\'', '0', ' ', 'engaging', 'storyline', 'kept', 'hooked',

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'added', 'value', '', '0', '', 'emotional', 'journey', 'left',
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'', '0', '', 'performances', 'elevated', 'already', 'excellent',
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',0']

```

```
print("Stemmed tokens:", stemmed_tokens)
```

```

Stemmed tokens: ['review', 'label', '', 'movi', 'absolut', 'wonder',
'masterpiec', '', '1', '', 'act', 'bad', 'could', "n't", 'watch',
'till', 'end', '', '0', '', 'engag', 'stori', 'fantast',

```

'visual', 'great', 'pace', '\', '1', '\', 'plot', 'made', 'sens',
'character', 'dull', '\', '0', '\', 'director', 'phenomen', 'job',
'bring', 'life', '\', '1', '\', 'much', 'hype', 'littl',
'substance', 'disappoint', '\', '0', '\', 'love', 'everi', 'second',
'definit', 'recommend', '\', '1', '\', 'one', 'worst', 'film',
've', 'ever', 'seen', '\', '0', '\', 'music', 'score',
'cinematographi', 'stun', '\', '1', '\', 'aw', 'script', 'bad',
'dialogu', 'poor', 'character', 'develop', '\', '0', '\',
'heartwarm', 'tale', 'perfect', 'blend', 'humor', 'drama', '\', '1',
'\', 'bore', 'predict', 'worth', 'time', '\', '0', '\', 'emot',
'rollercoast', 'top-notch', 'perform', '\', '1', '\', 'movi',
'wast', 'two', 'hour', 'life', '\', '0', '\', 'cinemat', 'gem',
'incred', 'act', 'grip', 'plot', '\', '1', '\', 'edit', 'messi',
'pace', 'pain', 'slow', '\', '0', '\', 'uplift', 'inspir', 'stori',
'touch', 'heart', '\', '1', '\', 'poor', 'direct', 'uninspir',
'storylin', 'watch', '\', '0', '\', 'beauti', 'craft', 'well-act',
'true', 'classic', '\', '1', '\', 'humor', 'felt', 'forc', 'joke',
'unfunni', '\', '0', '\', 'remark', 'film', 'exceed', 'expect',
'\', '1', '\', 'drag', 'long', 'lack', 'real', 'climax', '\',
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'cringeworthi', 'stori', 'lack', 'depth', '\', '0', '\',
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'\', '1', '\', 'repetit', 'unimagin', 'felt', 'like', 'bad',
'rehash', '\', '0', '\', 'thoroughli', 'enjoy', 'film', 'solid',
'script', '\', '1', '\', 'felt', 'like', 'filmmak', 'even', 'tri',
'\', '0', '\', 'touch', 'heartfelt', 'beauti', 'made', '\', '1',
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thin', '\', '0', '\', 'actor', 'deliv', 'stun', 'perform',
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'everi', 'scene', '\', '0', '\', 'absolut', 'love', 'creativ',
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'follow', '\', '0', '\', 'everi', 'detail', 'care', 'craft',
'make', 'joy', 'watch', '\', '1', '\', 'movi', 'forgett', 'lack',
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'\', '1', '\', 'act', 'stiff', 'stori', 'mani', 'plot', 'hole',
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'offer', '\', '0', '\', 'charact', 'growth', 'throughout', 'stori',
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'\', '0', '\', 'thought-provok', 'film', 'lot', 'heart', '\',
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