```
In [1]:
          import os
          import nltk
          import nltk.corpus
 In [8]:
          y="NLTK is intended to support research and teaching in NLP or closely related ar€
 In [9]:
          У
          'NLTK is intended to support research and teaching in NLP or closely related area
 Out[9]:
          s,including empirical linguistics, cognitive science, artificial intelligence, inf
          ormation retrieval, and machine learning.NLTK has been used successfully as a teac
          hing tool, as an individual study tool, and as a platform for prototyping and buil
          ding research systems. There are 32 universities in the US and 25 countries using
          NLTK in their courses. NLTK supports classification, tokenization, stemming, taggi
          ng, parsing, and semantic reasoning functionalities'
In [10]:
          type(y)
          str
Out[10]:
In [11]:
          from nltk.tokenize import word_tokenize
          import nltk
In [12]:
          ytokens=word_tokenize(y)
          ytokens
          ['NLTK',
Out[12]:
           'is',
           'intended',
           'to',
           'support',
           'research',
           'and',
           'teaching',
           'in',
           'NLP',
           'or',
           'closely',
           'related',
           'areas',
           ٠,٠,
           'including',
           'empirical',
           'linguistics',
           ٠,٠,
           'cognitive',
           'science',
           'artificial',
           'intelligence',
           ٠,٠,
           'information',
           'retrieval',
           ٠,٠,
           'and',
```

In [13]:

```
'machine',
'learning.NLTK',
'has',
'been',
'used',
'successfully',
'as',
'a',
'teaching',
'tool',
٠,',
'as',
'an',
'individual',
'study',
'tool',
٠,٠,
'and',
'as',
'a',
'platform',
'for',
'prototyping',
'and',
'building',
'research',
'systems',
٠.',
'There',
'are',
'32',
'universities',
'in',
'the',
'US',
'and',
'25',
'countries',
'using',
'NLTK',
'in',
'their',
'courses',
١.',
'NLTK',
'supports',
'classification',
'tokenization',
٠,',
'stemming',
٠,٠,
'tagging',
',',
'parsing',
'and',
'semantic',
'reasoning',
'functionalities'l
len(ytokens)
```

```
89
Out[13]:
In [14]:
            from nltk.probability import FreqDist
            fdist=FreqDist()
In [16]:
             for word in ytokens:
                 fdist[word.lower()]+=1
            fdist
            FreqDist({',': 12, 'and': 6, 'nltk': 3, 'in': 3, 'as': 3, 'research': 2, 'teaching
Out[16]:
            ': 2, 'a': 2, 'tool': 2, '.': 2, ...})
In [20]:
            fdist_10=fdist.most_common(10)
            fdist_10
           [(',', 12),
Out[20]:
             ('and', 6),
             ('nltk', 3),
             ('in', 3),
             ('as', 3),
             ('research', 2),
             ('teaching', 2),
             ('a', 2),
             ('tool', 2),
             ('.', 2)]
In [39]:
            import matplotlib.pyplot as plt
            fdist.plot(30,cumulative=False)
            plt.show()
              12
              10
               8
           Counts
               6
               4
               2
                                     is intended to support of cosely related areas including empirical linguistics cognitive science artificial intelligence information retrieval machine learning.nltk -
                     Samples
In [26]:
            from nltk.util import bigrams, trigrams, ngrams
In [27]:
            str_bigrams=list(nltk.bigrams(ytokens))
            str_bigrams
           [('NLTK', 'is'),
Out[27]:
```

```
('is', 'intended'),
('intended', 'to'),
('to', 'support'),
('support', 'research'),
('research', 'and'),
('and', 'teaching'),
('teaching', 'in'),
('in', 'NLP'),
('NLP', 'or'),
('or', 'closely'),
('closely', 'related'),
('related', 'areas'),
('areas', ','),
(',', 'including'),
('including', 'empirical'),
('empirical', 'linguistics'),
('linguistics', ','),
(',', 'cognitive'),
('cognitive', 'science'),
('science', ','),
(',', 'artificial'),
('artificial', 'intelligence'),
('intelligence', ','),
(',', 'information'),
('information', 'retrieval'),
('retrieval', ','),
(',', 'and'),
('and', 'machine'),
('machine', 'learning.NLTK'),
('learning.NLTK', 'has'),
('has', 'been'),
('been', 'used'),
('used', 'successfully'),
('successfully', 'as'),
('as', 'a'),
('a', 'teaching'),
('teaching', 'tool'),
('tool', ','),
(',', 'as'),
('as', 'an'),
('an', 'individual'),
('individual', 'study'),
('study', 'tool'), ('tool', ','),
(',', 'and'),
('and', 'as'),
('as', 'a'),
('a', 'platform'),
('platform', 'for'),
('for', 'prototyping'),
('prototyping', 'and'),
('and', 'building'),
('building', 'research'),
('research', 'systems'),
('systems', '.'),
('.', 'There'),
('There', 'are'),
('are', '32'),
('32', 'universities'),
('universities', 'in'),
('in', 'the'),
('the', 'US'),
('US', 'and'),
```

```
('and', '25'),
            ('25', 'countries'),
            ('countries', 'using'),
            ('using', 'NLTK'),
           ('NLTK', 'in'),
            ('in', 'their'),
            ('their', 'courses'),
            ('courses', '.'),
            ('.', 'NLTK'),
            ('NLTK', 'supports'),
            ('supports', 'classification'),
            ('classification', ','),
           (',', 'tokenization'),
           ('tokenization', ','),
            (',', 'stemming'),
            ('stemming', ','),
            (',', 'tagging'),
            ('tagging', ','),
            (',', 'parsing'),
            ('parsing', ','),
            (',', 'and'),
            ('and', 'semantic'),
            ('semantic', 'reasoning'),
In [28]:
           str_trigrams=list(nltk.trigrams(ytokens))
           str_trigrams
          [('NLTK', 'is', 'intended'),
Out[28]:
           ('is', 'intended', 'to'),
           ('intended', 'to', 'support'),
           ('to', 'support', 'research'),
            ('support', 'research', 'and'),
            ('research', 'and', 'teaching'),
            ('and', 'teaching', 'in'),
           ('teaching', 'in', 'NLP'), ('in', 'NLP', 'or'), ('NLP', 'or', 'closely'),
           ('or', 'closely', 'related'),
           ('closely', 'related', 'areas'),
           ('related', 'areas', '
           ('areas', ',', 'including'),
            (',', 'including', 'empirical'),
            ('including', 'empirical', 'linguistics'),
            ('empirical', 'linguistics', ','),
            ('linguistics', ',', 'cognitive'),
            (',', 'cognitive', 'science'),
            ('cognitive', 'science', ','),
           ('science', ',', 'artificial'),
            (',', 'artificial', 'intelligence'),
            ('artificial', 'intelligence', ','),
            ('intelligence', ',', 'information'),
            (',', 'information', 'retrieval'),
            ('information', 'retrieval', ','),
           ('retrieval', ',', 'and'), (',', 'and', 'machine'),
            ('and', 'machine', 'learning.NLTK'),
            ('machine', 'learning.NLTK', 'has'),
           ('learning.NLTK', 'has', 'been'), ('has', 'been', 'used'),
           ('been', 'used', 'successfully'),
('used', 'successfully', 'as'),
            ('successfully', 'as', 'a'),
```

('as', 'a', 'teaching'),

```
('a', 'teaching', 'tool'),
             ('teaching', 'tool', ','), ('tool', ',', 'as'),
             (',', 'as', 'an'),
             ('as', 'an', 'individual'),
             ('an', 'individual', 'study'),
             ('individual', 'study', 'tool'),
             ('study', 'tool', ','),
             ('tool', ',', 'and'), (',', 'and', 'as'),
             ('and', 'as', 'a'),
             ('as', 'a', 'platform'),
             ('a', 'platform', 'for'),
('platform', 'for', 'prototyping'),
             ('for', 'prototyping', 'and'),
('prototyping', 'and', 'building'),
             ('and', 'building', 'research'),
             ('building', 'research', 'systems'),
             ('research', 'systems', '.'),
('systems', '.', 'There'),
             ('.', 'There', 'are'),
             ('There', 'are', '32'),
             ('are', '32', 'universities'),
             ('32', 'universities', 'in'),
             ('universities', 'in', 'the'),
             ('in', 'the', 'US'),
('the', 'US', 'and'),
('US', 'and', '25'),
             ('and', '25', 'countries'),
             ('25', 'countries', 'using'),
             ('countries', 'using', 'NLTK'),
             ('using', 'NLTK', 'in'),
             ('NLTK', 'in', 'their'),
             ('in', 'their', 'courses'),
             ('their', 'courses', '.'),
             ('courses', '.', 'NLTK'),
             ('.', 'NLTK', 'supports'),
             ('NLTK', 'supports', 'classification'),
             ('supports', 'classification', ','),
             ('classification', ',', 'tokenization'),
             (',', 'tokenization', ','),
('tokenization', ',', 'stemming'),
(',', 'stemming', ','),
('stemming', ',', 'tagging'),
             (',', 'tagging', ','),
('tagging', ',', 'parsing'),
(',', 'parsing', ','),
             ('parsing', ',', 'and'), (',', 'and', 'semantic'),
             ('and', 'semantic', 'reasoning'),
                             Important Ifunctionalities[1]
In [29]:
             str ngrams=list(nltk.ngrams(ytokens,7))
             str_ngrams
            [('NLTK', 'is', 'intended', 'to', 'support', 'research', 'and'),
Out[29]:
             ('is', 'intended', 'to', 'support', 'research', 'and', 'teaching'),
             ('intended', 'to', 'support', 'research', 'and', 'teaching', 'in'),
             ('to', 'support', 'research', 'and', 'teaching', 'in', 'NLP'),
             ('support', 'research', 'and', 'teaching', 'in', 'NLP', 'or'), ('research', 'and', 'teaching', 'in', 'NLP', 'or', 'closely'),
             ('and', 'teaching', 'in', 'NLP', 'or', 'closely', 'related'),
```

```
('teaching', 'in', 'NLP', 'or', 'closely', 'related', 'areas'),
('in', 'NLP', 'or', 'closely', 'related', 'areas', '
('NLP', 'or', 'closely', 'related', 'areas', ',', 'including'),
('or', 'closely', 'related', 'areas', ',', 'including', 'empirical'),
('closely', 'related', 'areas', ',', 'including', 'empirical', 'linguistics'),
('related', 'areas', ',', 'including', 'empirical', 'linguistics', ','),
('areas', ',', 'including', 'empirical', 'linguistics', ',', 'cognitive'),
(',', 'including', 'empirical', 'linguistics', ',', 'cognitive', 'science'),
('including', 'empirical', 'linguistics', ',', 'cognitive', 'science', ','),
('empirical', 'linguistics', ',', 'cognitive', 'science', ',', 'artificial'),
('linguistics',
 'cognitive',
 'science',
 ٠,٠,
 'artificial',
 'intelligence'),
(',', 'cognitive', 'science', ',', 'artificial', 'intelligence', ','),
('cognitive',
 'science',
 'artificial',
 'intelligence',
 'information'),
('science',
 'artificial',
 'intelligence',
 'information',
 'retrieval'),
(',', 'artificial', 'intelligence', ',', 'information', 'retrieval', ','), ('artificial', 'intelligence', ',', 'information', 'retrieval', ',', 'and'),
('intelligence', ',', 'information', 'retrieval', ',', 'and', 'machine'),
(',', 'information', 'retrieval', ',', 'and', 'machine', 'learning.NLTK'),
('information', 'retrieval', ',', 'and', 'machine', 'learning.NLTK', 'has'),
('retrieval', ',', 'and', 'machine', 'learning.NLTK', 'has', 'been'),
(',', 'and', 'machine', 'learning.NLTK', 'has', 'been', 'used'),
('and', 'machine', 'learning.NLTK', 'has', 'been', 'used', 'successfully'),
('machine', 'learning.NLTK', 'has', 'been', 'used', 'successfully', 'as'),
('learning.NLTK', 'has', 'been', 'used', 'successfully', 'as', 'a'),
('has', 'been', 'used', 'successfully', 'as', 'a', 'teaching'), ('been', 'used', 'successfully', 'as', 'a', 'teaching', 'tool'), ('used', 'successfully', 'as', 'a', 'teaching', 'tool', ','),
('successfully', 'as', 'a', 'teaching', 'tool', ',', 'as'),
('as', 'a', 'teaching', 'tool', ',', 'as', 'an'),
('a', 'teaching', 'tool', ',', 'as', 'an', 'individual'), ('teaching', 'tool', ',', 'as', 'an', 'individual', 'study'), ('tool', ',', 'as', 'an', 'individual', 'study', 'tool'),
(',', 'as', 'an', 'individual', 'study', 'tool', ','),
('as', 'an', 'individual', 'study', 'tool', ',', 'and'),
('an', 'individual', 'study', 'tool', ',', 'and', 'as'),
('individual', 'study', 'tool', ',', 'and', 'as', 'a'),
('study', 'tool', ',', 'and', 'as', 'a', 'platform'),
('tool', ',', 'and', 'as', 'a', 'platform', 'for'),
(',', 'and', 'as', 'a', 'platform', 'for', 'prototyping'),
('and', 'as', 'a', 'platform', 'for', 'prototyping', 'and'),
('as', 'a', 'platform', 'for', 'prototyping', 'and', 'building'),
('a', 'platform', 'for', 'prototyping', 'and', 'building', 'research'),
('platform', 'for', 'prototyping', 'and', 'building', 'research', 'systems'),
('for', 'prototyping', 'and', 'building', 'research', 'systems', '.'),
('prototyping', 'and', 'building', 'research', 'systems', '.', 'There'),
```

```
('and', 'building', 'research', 'systems', '.', 'There', 'are'),
('building', 'research', 'systems', '.', 'There', 'are', '32'),
('research', 'systems', '.', 'There', 'are', '32', 'universities'), ('systems', '.', 'There', 'are', '32', 'universities', 'in'),
('.', 'There', 'are', '32', 'universities', 'in', 'the'),
('There', 'are', '32', 'universities', 'in', 'the', 'US'),
('are', '32', 'universities', 'in', 'the', 'US', 'and'),
('32', 'universities', 'in', 'the', 'US', 'and', '25'), ('universities', 'in', 'the', 'US', 'and', '25', 'countries'),
('in', 'the', 'US', 'and', '25', 'countries', 'using'), ('the', 'US', 'and', '25', 'countries', 'using', 'NLTK'),
('US', 'and', '25', 'countries', 'using', 'NLTK', 'in'),
('25', 'countries', 'using', 'NLTK', 'in', 'their', 'courses'),
('countries', 'using', 'NLTK', 'in', 'their', 'courses', '.'),
('using', 'NLTK', 'in', 'their', 'courses', '.', 'NLTK'), ('NLTK', 'in', 'their', 'courses', '.', 'NLTK', 'supports'),
('in', 'their', 'courses', '.', 'NLTK', 'supports', 'classification'),
('their', 'courses', '.', 'NLTK', 'supports', 'classification', ','), ('courses', '.', 'NLTK', 'supports', 'classification', ',', 'tokenization'),
('.', 'NLTK', 'supports', 'classification', ',', 'tokenization', ','), ('NLTK', 'supports', 'classification', ',', 'tokenization', ',', 'stemming'),
('supports', 'classification', ',', 'tokenization', ',', 'stemming', ','),
(supports , classification , , , tokenization , , , stemming , ','),
('classification', ',', 'tokenization', ',', 'stemming', ',', 'tagging'),
(',', 'tokenization', ',', 'stemming', ',', 'tagging', ','),
('tokenization', ',', 'stemming', ',', 'tagging', ',', 'parsing'),
(',', 'stemming', ',', 'tagging', ',', 'parsing', ','),
('stemming', ',', 'tagging', ',', 'parsing', ',', 'and'),
(',', 'tagging', ',', 'parsing', ',', 'and', 'semantic'),
('tagging', ',', 'parsing', ',', 'and', 'semantic', 'reasoning'),
('.'. 'parsing'. '.'. 'and'. 'semantic'. 'reasoning'. 'functionalities')]
```

In [31]:

```
from nltk.corpus import stopwords
stop_words = set(stopwords.words("english"))
print(stop_words)
```

{'had', 'ain', 'll', 'so', 'where', 'am', 'i', "weren't", 'theirs', 'have', "wasn'
t", 'same', "hasn't", 'wouldn', 'mustn', 'was', 'has', 'that', "shouldn't", 'y', '
which', 'be', 'from', 'now', "couldn't", 'she', 'doesn', 'up', 'on', 'about', "it'
s", 'd', 'your', 't', 'out', 'don', 've', "didn't", 'themselves', 'having', 'hers
', 'with', 'you', "mustn't", 'below', 'aren', 'herself', 'off', 'all', 'through',
'because', "wouldn't", "should've", 'he', 'for', 'the', 'under', 'here', 'ourselve
s', "that'll", 'whom', 'weren', 'its', 'only', 'are', 'at', 'to', 'such', 'couldn
', "don't", 'further', 'needn', "isn't", 'few', 'shouldn', 'yourselves', 'this', '
these', 'those', 'in', "shan't", 'but', 'against', 's', 'can', 'very', 'should', '
our', 'nor', 'didn', "doesn't", 'yourself', 'did', 'during', "you've", 'does', 'on
ce', 'what', 'each', 'more', 'me', 'itself', 'while', 're', 'their', 'ma', 'yours
', 'we', 'when', 'if', 'over', 'an', 'both', 'm', 'or', 'them', 'then', 'him', 'th
ere', 'own', 'above', 'hadn', 'than', 'again', 'any', "you'd", 'some', 'will', "yo
u're", 'by', 'no', 'isn', 'before', 'himself', 'not', 'too', 'and', 'how', "haven'
t", 'into', 'do', 'were', 'it', "hadn't", "you'll", 'of', 'hasn', 'after', 'my', "
needn't", 'down', 'her', 'doing', 'just', 'o', 'his', 'wasn', 'is', 'most', 'why',
'mightn', "mightn't", 'as', 'until', 'haven', 'they', 'between', "won't", 'being',
'shan', 'other', "she's", 'been', 'who', 'ours', 'myself', "aren't", 'won', 'a'}

```
filtered_sent=[]
for w in ytokens:
    if w not in stop_words:
        filtered_sent.append(w)
print("Tokenized Sentence:",ytokens)
print("Filterd Sentence:",filtered_sent)

print(len(ytokens))
print(len(filtered_sent))
```

Tokenized Sentence: ['NLTK', 'is', 'intended', 'to', 'support', 'research', 'and', 'teaching', 'in', 'NLP', 'or', 'closely', 'related', 'areas', ',', 'including', 'e mpirical', 'linguistics', ',', 'cognitive', 'science', ',', 'artificial', 'intelli gence', ',', 'information', 'retrieval', ',', 'and', 'machine', 'learning.NLTK', 'has', 'been', 'used', 'successfully', 'as', 'a', 'teaching', 'tool', ',', 'as', 'a n', 'individual', 'study', 'tool', ',', 'and', 'as', 'a', 'platform', 'for', 'prot otyping', 'and', 'building', 'research', 'systems', '.', 'There', 'are', '32', 'un iversities', 'in', 'the', 'US', 'and', '25', 'countries', 'using', 'NLTK', 'in', 'their', 'courses', '.', 'NLTK', 'supports', 'classification', ',', 'tokenization', ',', 'stemming', ',', 'tagging', ',', 'parsing', ',', 'and', 'semantic', 'reasonin g', 'functionalities']
Filterd Sentence: ['NLTK', 'intended', 'support', 'research', 'teaching', 'NLP', 'closely', 'related', 'areas', ',', 'including', 'empirical', 'linguistics', ',', 'cognitive', 'science', ',', 'artificial', 'intelligence', ',', 'information', 'ret rieval', ',', 'machine', 'learning.NLTK', 'used', 'successfully', 'teaching', 'too l', ',', 'individual', 'study', 'tool', ',', 'platform', 'prototyping', 'building ', 'research', 'systems', '.', 'There', '32', 'universities', 'US', '25', 'countri es', 'using', 'NLTK', 'courses', '.', 'NLTK', 'supports', 'classification', ',', 'tokenization', ',', 'stemming', ',', 'tagging', ',', 'parsing', ',', 'semantic', 'reasoning', 'functionalities']

```
In [36]:
    from nltk.stem import PorterStemmer
    ps = PorterStemmer()
    stemmed_words=[]
    for w in filtered_sent:
        stemmed_words.append(ps.stem(w))

    print("Filtered Sentence:",filtered_sent)
    print("Stemmed Sentence:",stemmed_words)
```

Filtered Sentence: ['NLTK', 'intended', 'support', 'research', 'teaching', 'NLP', 'closely', 'related', 'areas', ',', 'including', 'empirical', 'linguistics', ',', 'cognitive', 'science', ',', 'artificial', 'intelligence', ',', 'information', 're trieval', ',', 'machine', 'learning.NLTK', 'used', 'successfully', 'teaching', 'to ol', ',', 'individual', 'study', 'tool', ',', 'platform', 'prototyping', 'building ', 'research', 'systems', '.', 'There', '32', 'universities', 'US', '25', 'countri es', 'using', 'NLTK', 'courses', '.', 'NLTK', 'supports', 'classification', ',', 'tokenization', ',', 'stemming', ',', 'tagging', ',', 'parsing', ',', 'semantic', 'reasoning', 'functionalities']
Stemmed Sentence: ['nltk', 'intend', 'support', 'research', 'teach', 'nlp', 'close ', 'relat', 'area', ',', 'includ', 'empir', 'linguist', ',', 'cognit', 'scienc', ',', 'artifici', 'intellig', ',', 'inform', 'retriev', ',', 'machin', 'learning.nl tk', 'use', 'success', 'teach', 'tool', ',', 'individu', 'studi', 'tool', ',', 'pl atform', 'prototyp', 'build', 'research', 'system', '.', 'there', '32', 'univers', 'us', '25', 'countri', 'use', 'nltk', 'cours', '.', 'nltk', 'support', 'classif', ',', 'token', ',', 'stem', ',', 'tag', ',', 'pars', ',', 'semant', 'reason', 'function']

```
In [45]:
            from nltk.stem.wordnet import WordNetLemmatizer
            import pandas as pd
            lem = WordNetLemmatizer()
            stem = PorterStemmer()
            word = "flying"
            print("Lemmatized Word:",lem.lemmatize(word,"v"))
            print("Stemmed Word:",stem.stem(word))
           Lemmatized Word: fly
           Stemmed Word: fli
In [37]:
            POS_tagging = nltk.pos_tag(filtered_sent)
            print(POS_tagging)
           [('NLTK', 'NNP'), ('intended', 'VBD'), ('support', 'NN'), ('research', 'NN'), ('te
           aching', 'VBG'), ('NLP', 'NNP'), ('closely', 'RB'), ('related', 'JJ'), ('areas', '
           NNS'), (',', ','), ('including', 'VBG'), ('empirical', 'JJ'), ('linguistics', 'NNS
           '), (',', ','), ('cognitive', 'JJ'), ('science', 'NN'), (',', ','), ('artificial', 'JJ'), ('intelligence', 'NN'), (',', ','), ('information', 'NN'), ('retrieval', 'N'), (',', ','), ('machine', 'NN'), ('learning.NLTK', 'NN'), ('used', 'VBN'), ('su
           ccessfully', 'RB'), ('teaching', 'VBG'), ('tool', 'NN'), (',', ','), ('individual
', 'JJ'), ('study', 'NN'), ('tool', 'NN'), (',', ','), ('platform', 'NN'), ('proto
typing', 'VBG'), ('building', 'NN'), ('research', 'NN'), ('systems', 'NNS'), ('.',
            '.'), ('There', 'EX'), ('32', 'CD'), ('universities', 'NNS'), ('US', 'PRP'), ('25
              'CD'), ('countries', 'NNS'), ('using', 'VBG'), ('NLTK', 'NNP'), ('courses', 'NN
           S'), ('.', '.'), ('NLTK', 'NNP'), ('supports', 'VBZ'), ('classification', 'NN'), (',', ','), ('tokenization', 'NN'), (',', ','), ('stemming', 'VBG'), (',', ','),
            ('tagging', 'VBG'), (',', ','), ('parsing', 'VBG'), (',', ','), ('semantic', 'JJ
            '), ('reasoning', 'NN'), ('functionalities', 'NNS')]
In [40]:
            from nltk.sentiment.vader import SentimentIntensityAnalyzer
            hotel_rev=['Great place to be when you are in banglore.',
                         'The place was being renovated when I visited so the seating was limited
                         'Loved the ambience, loved the food.',
                          'Mushroom fried rice was tasty',
                         'The food was delicious but not over the top',
                         'The place is not easy to locate']
            sid=SentimentIntensityAnalyzer()
            for sentence in hotel_rev:
                 print(sentence)
                 ss=sid.polarity_scores(sentence)
                 for k in ss:
                      print('{0}:{1}, '.format(k,ss[k]),end='')
                      print()
           Great place to be when you are in banglore.
           neg:0.0,
           neu:0.661,
           pos:0.339,
           compound:0.6249,
           The place was being renovated when I visited so the seating was limited.
           neg:0.147,
           neu:0.853,
           pos:0.0,
           compound:-0.2263,
           Loved the ambience, loved the food.
           neg:0.0,
           neu:0.506,
           pos:0.494,
           compound:0.5994,
```

```
Mushroom fried rice was tasty
         neg:0.0,
         neu:1.0,
         pos:0.0,
         compound:0.0,
         The food was delicious but not over the top
         neg:0.168,
         neu:0.623,
         pos:0.209,
         compound:0.1184,
         The place is not easy to locate
         neg:0.286,
         neu:0.714,
         pos:0.0,
In [44]:
          #count vectorizer
          from sklearn.feature_extraction.text import CountVectorizer
          new_text=['This is the first document.',
                     'This document is the second document.',
                     'And this is the third one.',
                     'Is this the first document']
          vectorizer = CountVectorizer()
          X = vectorizer.fit_transform(new_text).toarray()
Out[44]: array([[0, 1, 1, 1, 0, 0, 1, 0, 1],
                 [0, 2, 0, 1, 0, 1, 1, 0, 1],
                 [1, 0, 0, 1, 1, 0, 1, 1, 1],
                 [0, 1, 1, 1, 0, 0, 1, 0, 1]], dtype=int64)
 In [ ]:
```