

SALONI BHINGARDIVE ROLL NO. 23 NLP PRAC 04

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import nltk
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from nltk import ngrams
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sentence="Opera refers to a dramatic art form, originating in Europe, in which the emotional
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n=7
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Word_grams= ngrams(sentence.split(),n)
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```
for w in Word_grams:
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    print(w)
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→ ('Opera', 'refers', 'to', 'a', 'dramatic', 'art', 'form,')
  ('refers', 'to', 'a', 'dramatic', 'art', 'form,', 'originating')
  ('to', 'a', 'dramatic', 'art', 'form,', 'originating', 'in')
  ('a', 'dramatic', 'art', 'form,', 'originating', 'in', 'Europe,')
  ('dramatic', 'art', 'form,', 'originating', 'in', 'Europe,', 'in')
  ('art', 'form,', 'originating', 'in', 'Europe,', 'in', 'which')
  ('form,', 'originating', 'in', 'Europe,', 'in', 'which', 'the')
  ('originating', 'in', 'Europe,', 'in', 'which', 'the', 'emotional')
  ('in', 'Europe,', 'in', 'which', 'the', 'emotional', 'content')
  ('Europe,', 'in', 'which', 'the', 'emotional', 'content', 'is')
  ('in', 'which', 'the', 'emotional', 'content', 'is', 'conveyed')
  ('which', 'the', 'emotional', 'content', 'is', 'conveyed', 'to')
  ('the', 'emotional', 'content', 'is', 'conveyed', 'to', 'the')
  ('emotional', 'content', 'is', 'conveyed', 'to', 'the', 'audience')
  ('content', 'is', 'conveyed', 'to', 'the', 'audience', 'as')
  ('is', 'conveyed', 'to', 'the', 'audience', 'as', 'much')
  ('conveyed', 'to', 'the', 'audience', 'as', 'much', 'through')
  ('to', 'the', 'audience', 'as', 'much', 'through', 'music,')
  ('the', 'audience', 'as', 'much', 'through', 'music,', 'both')
  ('audience', 'as', 'much', 'through', 'music,', 'both', 'vocal')
  ('as', 'much', 'through', 'music,', 'both', 'vocal', 'and')
  ('much', 'through', 'music,', 'both', 'vocal', 'and', 'instrumental,')
  ('through', 'music,', 'both', 'vocal', 'and', 'instrumental,', 'as')
  ('music,', 'both', 'vocal', 'and', 'instrumental,', 'as', 'it')
  ('both', 'vocal', 'and', 'instrumental,', 'as', 'it', 'is')
  ('vocal', 'and', 'instrumental,', 'as', 'it', 'is', 'through')
  ('and', 'instrumental,', 'as', 'it', 'is', 'through', 'the')
  ('instrumental,', 'as', 'it', 'is', 'through', 'the', 'lyrics.')
  ('as', 'it', 'is', 'through', 'the', 'lyrics.', 'By')
  ('it', 'is', 'through', 'the', 'lyrics.', 'By', 'contrast,')
  ('is', 'through', 'the', 'lyrics.', 'By', 'contrast,', 'in')
  ('through', 'the', 'lyrics.', 'By', 'contrast,', 'in', 'musical')
  ('the', 'lyrics.', 'By', 'contrast,', 'in', 'musical', 'theater')
  ('lyrics.', 'By', 'contrast,', 'in', 'musical', 'theater', 'an')
  ('By', 'contrast,', 'in', 'musical', 'theater', 'an', "actor's")
  ('contrast,', 'in', 'musical', 'theater', 'an', "actor's", 'dramatic')
  ('in', 'musical', 'theater', 'an', "actor's", 'dramatic', 'performance')

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( 'musical', 'theater', 'an', "actor's", 'dramatic', 'performance', 'is')
( 'theater', 'an', "actor's", 'dramatic', 'performance', 'is', 'primary,')
( 'an', "actor's", 'dramatic', 'performance', 'is', 'primary,', 'and')
( "actor's", 'dramatic', 'performance', 'is', 'primary,', 'and', 'the')
( 'dramatic', 'performance', 'is', 'primary,', 'and', 'the', 'music')
( 'performance', 'is', 'primary,', 'and', 'the', 'music', 'plays')
( 'is', 'primary,', 'and', 'the', 'music', 'plays', 'a')
( 'primary,', 'and', 'the', 'music', 'plays', 'a', 'lesser')
( 'and', 'the', 'music', 'plays', 'a', 'lesser', 'role.')
( 'the', 'music', 'plays', 'a', 'lesser', 'role.', 'The')
( 'music', 'plays', 'a', 'lesser', 'role.', 'The', 'drama')
( 'plays', 'a', 'lesser', 'role.', 'The', 'drama', 'in')
( 'a', 'lesser', 'role.', 'The', 'drama', 'in', 'opera')
( 'lesser', 'role.', 'The', 'drama', 'in', 'opera', 'is')
( 'role.', 'The', 'drama', 'in', 'opera', 'is', 'presented')
( 'The', 'drama', 'in', 'opera', 'is', 'presented', 'using')
( 'drama', 'in', 'opera', 'is', 'presented', 'using', 'the')
( 'in', 'opera', 'is', 'presented', 'using', 'the', 'primary')
( 'opera', 'is', 'presented', 'using', 'the', 'primary', 'elements')
( 'is', 'presented', 'using', 'the', 'primary', 'elements', 'of')
( 'presented', 'using', 'the', 'primary', 'elements', 'of', 'theater')
```

n=5

```
Word_grams1= ngrams(sentence.split(),n)
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for w in Word_grams1:
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```
    print (w)
```

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⇒ ('Opera', 'refers', 'to', 'a', 'dramatic')
('refers', 'to', 'a', 'dramatic', 'art')
('to', 'a', 'dramatic', 'art', 'form,')
('a', 'dramatic', 'art', 'form,', 'originating')
('dramatic', 'art', 'form,', 'originating', 'in')
('art', 'form,', 'originating', 'in', 'Europe,')
('form,', 'originating', 'in', 'Europe,', 'in')
('originating', 'in', 'Europe,', 'in', 'which')
('in', 'Europe,', 'in', 'which', 'the')
('Europe,', 'in', 'which', 'the', 'emotional')
('in', 'which', 'the', 'emotional', 'content')
('which', 'the', 'emotional', 'content', 'is')
('the', 'emotional', 'content', 'is', 'conveyed')
('emotional', 'content', 'is', 'conveyed', 'to')
('content', 'is', 'conveyed', 'to', 'the')
('is', 'conveyed', 'to', 'the', 'audience')
('conveyed', 'to', 'the', 'audience', 'as')
('to', 'the', 'audience', 'as', 'much')
('the', 'audience', 'as', 'much', 'through')
('audience', 'as', 'much', 'through', 'music,')
('as', 'much', 'through', 'music,', 'both')
('much', 'through', 'music,', 'both', 'vocal')
('through', 'music,', 'both', 'vocal', 'and')
('music,', 'both', 'vocal', 'and', 'instrumental,')
('both', 'vocal', 'and', 'instrumental,', 'as')
('vocal', 'and', 'instrumental,', 'as', 'it')
('and', 'instrumental,', 'as', 'it', 'is')
('instrumental,', 'as', 'it', 'is', 'through')
```

```
( 'as', 'it', 'is', 'through', 'the' )
( 'it', 'is', 'through', 'the', 'lyrics.' )
( 'is', 'through', 'the', 'lyrics.', 'By' )
( 'through', 'the', 'lyrics.', 'By', 'contrast,' )
( 'the', 'lyrics.', 'By', 'contrast,', 'in' )
( 'lyrics.', 'By', 'contrast,', 'in', 'musical' )
( 'By', 'contrast,', 'in', 'musical', 'theater' )
( 'contrast,', 'in', 'musical', 'theater', 'an' )
( 'in', 'musical', 'theater', 'an', "actor's" )
( 'musical', 'theater', 'an', "actor's", 'dramatic' )
( 'theater', 'an', "actor's", 'dramatic', 'performance' )
( 'an', "actor's", 'dramatic', 'performance', 'is' )
( "actor's", 'dramatic', 'performance', 'is', 'primary,' )
( 'dramatic', 'performance', 'is', 'primary,', 'and' )
( 'performance', 'is', 'primary,', 'and', 'the' )
( 'is', 'primary,', 'and', 'the', 'music' )
( 'primary,', 'and', 'the', 'music', 'plays' )
( 'and', 'the', 'music', 'plays', 'a' )
( 'the', 'music', 'plays', 'a', 'lesser' )
( 'music', 'plays', 'a', 'lesser', 'role.' )
( 'plays', 'a', 'lesser', 'role.', 'The' )
( 'a', 'lesser', 'role.', 'The', 'drama' )
( 'lesser', 'role.', 'The', 'drama', 'in' )
( 'role.', 'The', 'drama', 'in', 'opera' )
( 'The', 'drama', 'in', 'opera', 'is' )
( 'drama', 'in', 'opera', 'is', 'presented' )
( 'in', 'opera', 'is', 'presented', 'using' )
( 'opera', 'is', 'presented', 'using', 'the' )
( 'is', 'presented', 'using', 'the', 'primary' )
( 'presented', 'using', 'the', 'primary', 'elements' )
```

mysentence="Saloni Bhingardive lives in Nagpur. She loves to read"

n=2

Word_grams3= ngrams(mysentence.split(),n)

for w in Word_grams3:

print(w)

```
→ ('Saloni', 'Bhingardive')
('Bhingardive', 'lives')
('lives', 'in')
('in', 'Nagpur.')
('Nagpur.', 'She')
('She', 'loves')
('loves', 'to')
('to', 'read')
```