# Text Visualization

Creating Bag Of Words Model

### **Text Visualization**

"It is going to rain today"

"Today I am not going outside"

"I am going to watch the season premiere"

### Bag Of Words – Lower the sentences

"it is going to rain today"

"today i am not going outside"

"i am going to watch the season premiere"

### Bag Of Words – Tokenization

#### Sentence 1

it

is

going

to

rain

today

#### Sentence 2

today

am

not

going

outside

#### Sentence 3

İ

am

going

10

watch

the

season

Word	Count
it	1

#### Sentence 1

it

is

going

to

rain

Word	Count
it	1
is	1

#### Sentence 1

i

is

going

to

rain

Word	Count
it	1
is	1
going	1

#### Sentence 1

it

is

going

to

rain

Word	Count
it	1
is	1
going	1
to	1

#### Sentence 1

it

is

going

to

rain

Word	Count
it	1
is	1
going to	1
to	1
rain	1

#### Sentence 1

it

is

going

to

rain

Word	Count
it	1
is	1
going	1
to	1
rain	1
today	1

#### Sentence 1

it

is

going

to

rain

Word	Count
it	1
is	1
going	1
to	1
rain	1
today	1

#### Sentence 2

today

i

am

not

going

Word	Count
it	1
is	1
going to	1
to	1
rain	1
today	2

#### Sentence 2

today

am

not

going

Word	Count
it	1
is	1
going to	1
to	1
rain	1
today	2
i	1

#### Sentence 2

today

am

not

going

Word	Count
it	1
is	1
going to	1
to	1
rain	1
today	2
i	1
am	1

#### Sentence 2

today

am

not

going

Word	Count
it	1
is	1
going	1
to	1
rain	1
today	2
i	1
am	1
not	1

#### Sentence 2

today

am

not

going

Word	Count
it	1
is	1
going to	2
to	1
rain	1
today	2
i	1
am	1
not	1

#### Sentence 2

today

i

am

not

going

Word	Count
it	1
is	1
going	2
to	1
rain	1
today	2
i	1
am	1
not	1
outside	1

#### Sentence 2

today

i

am

not

going

Word	Count	Word	Count
it	1		
is	1		
going	2		
to	1		
rain	1		
today	2		
i	2		
am	1		
not	1		
outside	1		

#### Sentence 3

Ĭ

am

going

to

watch

the

season

Word	Count	Word	Count
it	1		
is	1		
going	2		
to	1		
rain	1		
today	2		
i	2		
am	2		
not	1		
outside	1		

#### Sentence 3

am

going

to

watch

the

season

Word	Count	Word	Count
it	1		
is	1		
going	3		
to	1		
rain	1		
today	2		
i	2		
am	2		
not	1		
outside	1		

#### Sentence 3

İ

am

going

to

watch

the

season

Word	Count	Word	Count
it	1		
is	1		
going	3		
to	2		
rain	1		
today	2		
i	2		
am	2		
not	1		
outside	1		

#### Sentence 3

am

going

to

watch

the

season

Word	Count	Word	Count
it	1	watch	1
is	1		
going	3		
to	2		
rain	1		
today	2		
i	2		
am	2		
not	1		
outside	1		

#### Sentence 3

İ

am

going

to

watch

the

season

Word	Count	Word	
it	1	watch	1
is	1	the	1
going	3		
to	2		
rain	1		
today	2		
i	2		
am	2		
not	1		
outside	1		

#### Sentence 3

İ

Count

am

going

to

watch

the

season

Word

Count

Word	Count	Wo
it	1	watch
is	1	the
going	3	season
to	2	
rain	1	
today	2	
i	2	
am	2	
not	1	
outside	1	

#### Sentence 3

İ

am

going

to

watch

the

season

Word	Count	Word
it	1	watch
is	1	the
going	3	season
to	2	premiere
rain	1	
today	2	
i	2	
am	2	
not	1	
outside	1	

#### Sentence 3

Ĭ

Count

am

going

to

watch

the

season

Word	Count	Word	Count
it	1	watch	1
is	1	the	1
going	3	season	1
to	2	premiere	1
rain	1		
today	2		
i	2		
am	2		
not	1		
outside	1		

Word	Count	Word	Count

Word	Count	Word	Count
it	1	watch	1
is	1	the	1
going	3	season	1
to	2	premiere	1
rain	1		
today	2		
i	2		
am	2		
not	1		
outside	1		

Word	Count	Word	Count
going	3		

Maximum: going

Word	Count	Word	Count
it	1	watch	1
is	1	the	1
going	3	season	1
to	2	premiere	1
rain	1		
today	2		
i	2		
am	2		
not	1		
outside	1		

Word	Count	Word	Count
going	3		
to	2		

Maximum: to

Count	Word	Count
3		
2		
2		
	3 2	3 2

Maximum: today

Word	Count	Word	Count
going	3		
to	2		
today	2		
i	2		

Maximum: i

Word	Count	Word	Count
going	3		
to	2		
today	2		
i	2		
am	2		

Maximum: am

Word	Count	Word	Count
going	3	watch	1
to	2	the	1
today	2	season	1
i	2	premiere	1
am	2		
it	1		
is	1		
rain	1		
not	1		
outside	1		

### Bag Of Words – Filter words

rain

not

outside

Word	Count	Word	Count
going	3	watch	1
to	2	the	1
today	2	season	1
i	2	premiere	1
am	2		
it	1		

10 most frequent words

# Bag Of Words – Filter words

Word	Count
going	3
to	2
today	2
i	2
am	2
it	1
is	1
rain	1
not	1
outside	1

Word	Count
going	3
to	2
today	2
i	2
am	2
it	1
is	1
rain	1
not	1
outside	1

Words/Doc uments	going	to	today	i	am	it	is	rain	not	outside
1										
2										
3										

Words/Doc uments	going	to	today	i	am	it	is	rain	not	outside
1										
2										
3										

Words/Doc uments	going	to	today	i	am	it	is	rain	not	outside
1	1									
2										
3										

Words/Doc uments	going	to	today	i	am	it	is	rain	not	outside
1	1	1								
2										
3										

Words/Doc uments	going	to	today	i	am	it	is	rain	not	outside
1	1	1	1							
2										
3										

Words/Doc uments	going	to	today	i	am	it	is	rain	not	outside
1	1	1	1	0						
2										
3										

Words/Doc uments	going	to	today	i	am	it	is	rain	not	outside
1	1	1	1	0	0					
2										
3										

Words/Doc uments	going	to	today	i	am	it	is	rain	not	outside
1	1	1	1	0	0	1				
2										
3										

Words/Doc uments	going	to	today	i	am	it	is	rain	not	outside
1	1	1	1	0	0	1	1			
2										
3										

Words/Doc uments	going	to	today	i	am	it	is	rain	not	outside
1	1	1	1	0	0	1	1	1		
2										
3										

Words/Doc uments	going	to	today	i	am	it	is	rain	not	outside
1	1	1	1	0	0	1	1	T	0	
2										
3										

Words/Doc uments	going	to	today	i	am	it	is	rain	not	outside
1	1	1	1	0	0	1	T	1	0	0
2										
3										

Words/Doc uments	going	to	today	i	am	it	is	rain	not	outside
Ī	1	1	1	0	0	1	1	T	0	0
2	1									
3										

Words/Doc uments	going	to	today	i	am	it	is	rain	not	outside
1	T	1	1	0	0	1	1	1	0	0
2	1	0								
3										

Words/Doc uments	going	to	today	i	am	it	is	rain	not	outside
1	1	1	1	0	0	1	1	1	0	0
2	1	0	1							
3										

Words/Doc uments	going	to	today	i	am	it	is	rain	not	outside
1	1	1	1	0	0	1	1	1	0	0
2	1	0	1	1						
3										

Words/Doc uments	going	to	today	i	am	it	is	rain	not	outside
1	1	1	1	0	0	1	1	1	0	0
2	1	0	1	1	1					
3										

Words/Doc uments	going	to	today	i	am	it	is	rain	not	outside
1	1	1	1	0	0	1	1	1	0	0
2	1	0	1	1	1	0				
3										

Words/Doc uments	going	to	today	i	am	it	is	rain	not	outside
1	1	1	1	0	0	1	1	1	0	0
2	1	0	1	1	1	0	0			
3										

Words/Doc uments	going	to	today	i	am	it	is	rain	not	outside
1	1	1	1	0	0	1	1	1	0	0
2	1	0	1	1	1	0	0	0		
3										

Words/Doc uments	going	to	today	i	am	it	is	rain	not	outside
1	1	1	1	0	0	1	1	1	0	0
2	1	0	1	1	1	0	0	0	1	
3										

Words/Doc uments	going	to	today	i	am	it	is	rain	not	outside
1	1	1	1	0	0	1	1	1	0	0
2	1	0	1	1	1	0	0	0	1	1
3										

Words/Doc uments	going	to	today	i	am	it	is	rain	not	outside
1	1	1	1	0	0	1	1	1	0	0
2	1	0	1	1	1	0	0	0	1	1
3	1	1	0	1	1	0	0	0	0	0

i am going to watch the season premiere

# Bag Of Words – Model Ready

Words/Doc uments	going	to	today	i	am	it	is	rain	not	outside
1	1	1	1	0	0	Ī	1	1	0	0
2	1	0	1	1	1	0	0	0	1	1
3	1	1	0	1	1	0	0	0	0	0

#### **Text Visualization**

"It is going to rain today"

"Today I am not going outside"

"I am going to watch the season premiere"

## Bag Of Words – Model Ready

Words/Doc uments	going	to	today	i	am	it	is	rain	not	outside
1	1	1	1	0	0	1	1	1	0	0
2	1	0	1	1	1	0	0	0	1	1
3	1	1	0	1	1	0	0	0	0	0