

Text Summarization

A NLP based approach

Text Summarization -Techniques

- A simple Natural Language Processing based approach
- A Deep NLP based approach

Text Summarization -Techniques

- A simple Natural Language Processing based approach ←
- A Deep NLP based approach

Text Summarization – Sample paragraph

Thank you all so very much. Thank you to the Academy. Thank you to all of you in this room. I have to congratulate the other incredible nominees this year. *The Revenant* was the product of the tireless efforts of an unbelievable cast and crew.

Text Summarization – Tokenization

1. Thank you all so very much.
2. Thank you to the Academy.
3. Thank you to all of you in this room.
4. I have to congratulate the other incredible nominees this year.
5. *The Revenant* was the product of the tireless efforts of an unbelievable cast and crew.

Text Summarization – Preprocess

1. thank you all so very much
2. thank you to the academy
3. thank you to all of you in this room
4. i have to congratulate the other incredible nominees this year
5. *the revenant* was the product of the tireless efforts of an unbelievable cast and crew

Text Summarization – Histogram

Word	Count	Word	Count	Word	Count
thank	3	in	1	revenant	1
you	4	this	2	was	1
all	2	room	1	product	1
so	1	i	1	tireless	1
very	1	have	1	efforts	1
much	1	congratulate	1	an	1
to	3	other	1	unbelievable	1
the	5	incredible	1	cast	1
academy	1	nominees	1	and	1
of	3	year	1	crew	3

Text Summarization – Weighted Histogram

Maximum is
5

Word	Weight	Word	Weight	Word	Weight
thank	3/5	in	1/5	revenant	1/5
you	4/5	this	2/5	was	1/5
all	2/5	room	1/5	product	1/5
so	1/5	i	1/5	tireless	1/5
very	1/5	have	1/5	efforts	1/5
much	1/5	congratulate	1/5	an	1/5
to	3/5	other	1/5	unbelievable	1/5
the	5/5	incredible	1/5	cast	1/5
academy	1/5	nominees	1/5	and	1/5
of	3/5	year	1/5	crew	1/5

Text Summarization – Weighted Histogram

Word	Weight	Word	Weight	Word	Weight
thank	0.5	in	0.2	revenant	0.2
you	0.8	this	0.4	was	0.2
all	0.4	room	0.2	product	0.2
so	0.2	i	0.2	tireless	0.2
very	0.2	have	0.2	efforts	0.2
much	0.2	congratulate	0.2	an	0.2
to	0.6	other	0.2	unbelievable	0.2
the	1	incredible	0.2	cast	0.2
academy	0.2	nominees	0.2	and	0.2
of	0.6	year	0.2	crew	0.2

Text Summarization – Sentence Scores

1. thank you all so very much
2. thank you to the academy
3. thank you to all of you in this room
4. i have to congratulate the other incredible nominees this year
5. *the revenant* was the product of the tireless efforts of an unbelievable cast and crew

Text Summarization – Sentence Scores

thank

you

all

so

very

much

Text Summarization – Weighted Histogram

Word	Weight	Word	Weight	Word	Weight
thank	0.5	in	0.2	revenant	0.2
you	0.8	this	0.4	was	0.2
all	0.4	room	0.2	product	0.2
so	0.2	i	0.2	tireless	0.2
very	0.2	have	0.2	efforts	0.2
much	0.2	congratulate	0.2	an	0.2
to	0.6	other	0.2	unbelievable	0.2
the	1	incredible	0.2	cast	0.2
academy	0.2	nominees	0.2	and	0.2
of	0.6	year	0.2	crew	0.2

Text Summarization – Sentence Scores

thank	0.5
you	0.8
all	0.4
so	0.2
very	0.2
much	0.2

Text Summarization – Sentence Scores

thank	0.5
you	0.8
all	0.4
so	0.2
very	0.2
much	0.2
<hr/>	
	2.3

Text Summarization – Sentence Scores

Sentence	Score
thank you all so very much	2.3

Text Summarization – Sentence Scores

Sentence	Score
thank you all so very much	2.3
thank you to the academy	3.1

Text Summarization – Sentence Scores

Sentence	Score
thank you all so very much	2.3
thank you to the academy	3.1
thank you to all of you in this room	4.3

Text Summarization – Sentence Scores

Sentence	Score
thank you all so very much	2.3
thank you to the academy	3.1
thank you to all of you in this room	4.3
i have to congratulate the other incredible nominees this year	3.4

Text Summarization – Sentence Scores

Sentence	Score
thank you all so very much	2.3
thank you to the academy	3.1
thank you to all of you in this room	4.3
i have to congratulate the other incredible nominees this year	3.4
<i>the revenant</i> was the product of the tireless efforts of an unbelievable cast and crew	6.2

Text Summarization – Sort by Score

Sentence	Score
<i>the revenant</i> was the product of the tireless efforts of an unbelievable cast and crew	6.2
thank you to all of you in this room	4.3
i have to congratulate the other incredible nominees this year	3.4
thank you to the academy	3.1
thank you all so very much	2.3

Text Summarization – Pickle N Largest

Sentence	Score
<i>the revenant</i> was the product of the tireless efforts of an unbelievable cast and crew	6.2
thank you to all of you in this room	4.3

Text Summarization – Summary done

The Revenant was the product of the tireless efforts of an unbelievable cast and crew.

Thank you to all of you in this room.