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text = ""

import spacy
from spacy.lang.en.stop_words import STOP_WORDS
import string
from string import punctuation

stopwords = list(STOP_WORDS)

# clear the NLP Model by using (en_core_web_sm)
nlp = spacy.load('en_core_web_sm')

# inside this nlp pass the text
doc = nlp(text)

# build list of the token by calling [token = token.text for token in doc]

tokens = [token.text for token in doc]
print(tokens)

# remove the stop_words and punctuation (text-cleaning)
punctuation = punctuation + '\n'
punctuation

# build the word frequency
# we need to calculate each of these words how many times has occurred in this given text and then we based on those frequency
# we will indentify that the most important sentence.

word_frequencies = {}
for word in doc:
    if word.text.lower() not in stopwords:
        if word.text.lower() not in punctuation:
            if word.text not in word_frequencies.keys():
                word_frequencies[word.text] = 1
            else:
                word_frequencies[word.text] += 1

# if any keys is being introduce the first time the word of that occurrence will be
# equal to 1 but after the first time it is being introduced for second and the third time
# it will just increment 1 in already present key in word_frequency.

print(word_frequencies)

max_frequency = max(word_frequencies.values())

max_frequency

4

# now we are going divided each of this values by max_frequency so that a nomalized
# frequency can achieved

for word in word_frequencies.keys():
    word_frequencies[word] = word_frequencies[word] / max_frequency

print(word_frequencies)

# Sentence tokenization
sentence_tokens = [sent for sent in doc.sents]
print(sentence_tokens)

# calculate the sentence score
sentence_scores = {}
for sent in sentence_tokens:
    for word in sent:
        if word.text.lower() in word_frequencies.keys():
            if sent not in sentence_scores.keys():
                sentence_scores[sent] = word_frequencies[word.text.lower()]
            else:
                sentence_scores[sent] += word_frequencies[word.text.lower()]

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sentence_scores

# now get 30% of sentence with maximum score
from heapq import nlargest

select_length = int(len(sentence_tokens)*0.3)
select_length

# now we have to select (select_length) sentence which have maximum frequency count

summary = nlargest(select_length, sentence_scores, key = sentence_scores.get)

summary

# After we got the most important sentences we have to combined them
final_summary = [word.text for word in summary]

final_summary

summary = ' '.join(final_summary)

print(text)

print(summary)

# compare original text and summary text
len(text)

593

len(summary)

0
```

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