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In [ ]: import urllib.request
        import bs4 as BeautifulSoup
        import nltk
        from string import punctuation
        from nltk.corpus import stopwords
        from nltk.tokenize import word_tokenize
        from nltk.tokenize import sent_tokenize
In [ ]: text = urllib.request.urlopen('https://en.wikipedia.org/wiki/Machine_learning')
In [ ]: article = text.read()
In [ ]: article
In [ ]: | article_parsed = BeautifulSoup.BeautifulSoup(article, 'html.parser')
In [ ]: paragraphs = article_parsed.find_all('p')
In [ ]: article_content = ''
        for p in paragraphs:
            article_content += p.text
In [ ]: article_content
In [ ]: tokens = word_tokenize(article_content)
In [ ]: | nltk.download("stopwords")
        stop_words = stopwords.words('english')
In [ ]: punctuation = punctuation + '\n'
        punctuation
In [ ]: word_frequencies = {}
        for word in tokens:
            if word.lower() not in stop_words:
                if word.lower() not in punctuation:
                    if word not in word_frequencies.keys():
                        word_frequencies[word] = 1
                    else:
                        word_frequencies[word] += 1
In [ ]: word_frequencies
In [ ]: max_frequency = max(word_frequencies.values())
        print(max_frequency)
In [ ]: for word in word_frequencies.keys():
            word_frequencies[word] = word_frequencies[word]/max_frequency
In [ ]: print(word_frequencies)
In [ ]: | sent_token = sent_tokenize(article_content)
        sent_token
In [ ]: sentence_scores = {}
        for sent in sent_token:
            sentence = sent.split(" ")
            for word in sentence:
                if word.lower() in word_frequencies.keys():
                    if sent not in sentence_scores.keys():
                        sentence_scores[sent] = word_frequencies[word.lower()]
                    else:
                        sentence_scores[sent] += word_frequencies[word.lower()]
In [ ]: sentence_scores
In [ ]: | from heapq import nlargest
In [ ]: | select_length = int(len(sent_token)*0.3)
        select_length
In [ ]: summary = nlargest(select_length, sentence_scores, key = sentence_scores.get)
In [ ]: final_summary = [word for word in summary]
        summary = ' '.join(final_summary)
In [ ]: | summary
In [ ]: len(article_content)
In [ ]: len(summary)
In [ ]:
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