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A.P. SHAH INSTITUTE OF TECHNOLOGY

Department of Computer Science and Engineering **Data Science**



Semester: VI Subject : ______DAV Academic Year: 2023- 2024 REPRESENTING TEXT :-

* It includes phases and phase 4 of Dala Analytics Life cycle.

Tokerization is the lask of separating Calso called tokenizing) words from the body of tent.

*Row tent is conveiled into collections of tokens after

the tokenization, where each token is generally a wood.

A common approach is tokenizing on spaces. For example,

with the tweet shown previously:

I any once had a gf back in the day, Then the bPhone came out lot. tokenization based on spaces would output a list aftokens fI, once, had, a, gf, back, in, the, day.,

Then, the , b Phone , came , out , lol ?

Note that token "day," contains a period. This is the result of only using space as the separator. Therefore, tokens "day." and "day" would be considered different terms in the downstream analysis unless an additional lookup table is provided.

The problems faced:

can't -> can't should be writin as can and t

We'll -> We'll should be we and I

Wi-Fi → Wi-Fi should be written wi and Fi.

Text Normalization Technique - Case folding: It reduces all letters to lowercase (or the opposite if applicable). For the previous lived, after case folding the text would Subject Incharge: Prof. Sarala Mary Page No. 1 Department of CSE-Data Science | APSIT



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Ponce had a gf back in t	he day, then the bphone came
Λ	U .
Problems faced:	
Grend motor - The governer	al motor can be us will be
interpreted as general and	motors.
WHO -> WHO stands for Wo	al motor can be con will be motors. Id Health Organization but
Text Normalization Technique	- Stopwords
of stop words are ased of com	monly used words in a language.
- Examples of stop words in C	nglish are a", "the, "is", "are et. Is that are so widely used useful information.
1 The used to eliminate Hore	to that are so wrang
int they carry very little	useful information.
that they carry very little Example:	
impat with	boords -
from nltk.corpus import elé	
netk. download (8 lop words)	166'))
netk. download ('slop words') print (slopwords. words ('eng	
output: 'musell' be',	our', 'oun', 'oundrei,].
['i', 'me', 'mysee], De,	
- Classica and	Without Stop Words
Sample link with Slop Words	
J World	Greeksfor Greeks, Compuler Science,
GreaksforGeaks - A Computer	De 151, Geeks
science Portal for Greeks.	1 . I o by bouldties
Can listining be exhausting. 30 Tread	I like Vegaling Stead
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Someston VI
Semester: VI Subject: DAV Academic Year: 2023-2024 Bag of Words (BOW) model in NLP:
Bag of words model is used to preprocess the text by
Bag of words model is used to preprocess the text by converting into a bag of words, which keeps a court of a
The of most frequently used words.
total occurrences of most frequently used words.
This model can be visualized using a table, which combine
the count of words corresponding to the word itself.
Example.
Let us consider the three sentences:
(1) Hello and
(a) toho level teaching.
(3) John was to play to the
1 Had following
consider the unique words in the corpus given.
lis II I welcome everyone John loves teaching to play crick
Hello and welcome everyone John loves teaching to play crick
2) 0 0 1
(a) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
remore stopword
remore stopword For every sentences, we substitute with and according to the coccurance of the word:
the occurance of the word:
To reduce the size, we semove the supposed is stopword
the occurance of the word: To reduce the size, we remove—the stopwords from the given table. In the given example and and to a stopword to be and we get 8 words. This is how bag of words.
Subject Incharge Book South to
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