Title: Consider Switable text dataset, Penove stop words, apply stemming and feature selection techniques to represent document as vectors, classify documents & evaluate precision, re Call.

* objective:

objective:+ Implementation of the problem statement Using Python.

* Pernove stop words, apply stemming and feature selection.

In Computing stop words ore the words which are filtered out before and after processing of natural language data. Though stop words refer to most common words in a language, there is no single universal list of Stop words used by all natural language processing tools and indeed not all tools even use such a list. Any group of word can be chosen as the stop words for a given purpose.

Code to remove stop worlds,

from ntlk, to kenize import sent to kenize, word-to kenize.

from ntlk. Corpus import stopwords.

date: "date mining is a subject."

Page No.:

Date:

Youvy

Stopwords = set (stopwords. words ('english)

words = word - tokenize (data)

words filtered = []

for w in words:

if w not in stopwords:

words filtered. append (w)

Print (words filtered)

* stemming:

stemming is the process of reducing inflected core sometimes derived words to their wordstem base or root form-generally a written word form. The stem need not be identical to the morphological root of the word it is usually sufficient that related word map to same stem, even if this stem is not in itself a Valid root.

Code for stemming:

from nltk. stem import Porter stemmer From nltk. stokenize import Sent-tokenize, word-tokenize.

Ps = Porterstemmer() ex-words = ("Python", "data", "mining"]

for win ex-words:

print (Ps. stem (w))

* Feature Extraction:

In Machine learning and Statistic feature selection also known as voriable selection atteinate selection of Voriable subset selection is the process of selecting a subset of relevant feature for use in model Construction.

- Ofeature selection techniques are used for four reasons.
- @ simplification of models to take them easier to interrpetet by researchers users.

3 shorter teaining times.

1 To avoid the Curse of dimensionality. 6 Enhanced generalization by reducing over fitting.

Conclusion:

We successfully removed stop words. apply stemming and feature extraction techniques to represent documents as vectors.