Assignment A4 41403

problem statement: consider a situation test dataset. Remair a top words, apply at emming & feature selection techniques to represent downers as vectors. classify documents & evaluate precision & recall

- Objectives: - Implementation of the problems to lement using python - Remove stoppoods, apply stemming &

- Outcomes: grudents will be able to

-implement the P.S. using python

- france stop words, apply stemming &

5/w & Hw sequisements: - Fedora 20/ windows 10 - Tupyter envisonment

Theory.

Stopwords: To computing, stopwords are words which are filtered out before or after processing of test. Through these words usually order to the most consumer words in the language there is an siggle universal list. Some tools eun specifically avoid removing these stop words to support phrase seasely.



Glemming: Glemming is the process of reducing inflected words to their word stem bose or root form general; a written word form. The stem need not be identical to the morphitical root to the word it is usually sufficient that related words map to some stem were if this stem is not in itself a valid root.

Feature selections In machine learning & statistic feature selection also known as variable selection is the process of selecting a subsel of relevant features for use in model construction. Feature selection techniques are used for 4 seasons

- simplifications of models to make them easier to interpret by users.

- shorter training trees

- to avoid the use of dimentionality

- enhanced generalization by reducing

Precision: it means the proportion of the positive identifications that was actually correct.

Precision = TP

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	- Reall: Reall mentions the proportions of
	actual positives that were identical consectly.
	Reall = TP
	TP+FN
	now text (string) por tagged sentences
	I gentence list of ruples
	segmentation tool
	tokenization chunked sentances
	1 of stong
	part of speech detection
	tegg: 29.
	tegging. (relations (list of hyles)
	hiples)
_	conclusion: We have successfully reversed stop
	words opplied stemming & feature selection techniques to represent document of vectors
	techniques to represent document of rectors
	and also carried precision & recult.