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+ Title: Twitter date analysis.

* Problem statement: Twitter data analysis

use twitter data for

sentiment analysis. The data set is 3mb

in size and has 31.962 twicts.

Identify the tweets which are

hate tweets and which arenot.

* objective:

for determing hate tweets I which are not

+ out Come:

ment analysis on twitter dataset using classification algorithm.

* Theory:

Sentiment analysis is the process of determining wheather a piece of writing (Product I movie review tweeter is positive, negative or neutral etc. It can be used to identify the customer or followers attitude towards a brand through the use of voriable such as context I tone emotion et (Morketers can use sentiment analysis to research public opinion of their Company & products.

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step 3 to perform Sentiment analysis:

+ gather relevant tweets Prom twittes

+ preprocessing (3topword removal)

+ ceature extraction.

+ ceature selection.

crather relevant tweets from twitter:
vorious dataset are available of twitter
date for sentiment analysis.

preprocessing:

and then it be comes easier to exteact information and apply machine learning algorithm. If it is skipped we were working with noisy and inconsistent data, Now data will be come less noisy and relevant for sentiment analysis. Punctuation, special characters inumbers & teams do not carry more weightage,

For preprocessing following stepsore required:

(A) femoving twitter handley (@user);
The tweets Contain lots of twitter
handley (@user) that is how atwitter
user a curnowledged on twitter

(B) Removing Runduations, Numbers and Special characters punctuations, Numbers & special characters do not help much.

It is better to be move them

- (c) femoving short words:

 Some short words are removed
 for cleansing.
- (D) Tokenization:

 Tokens are individual words and
 tokenization is the process of splitting
 a steing of text into tokens.
 - stemming is a rule based process
 of steipping the suffixer ("ing", "14", is
 "s'etc) from a word for example.
 "Play", "Player", "Played", "Playing".
- Selection of useful words from the tweet is called as feature extraction, In the feature extraction methods extract the aspects from preprocessed twitter dataset.
- General Selection:

 Correct feature selection techniques are

 Used in sentiment analysis that has

 important rules. They are Categorized

 into 4 main types, Natural language

 processing statistical clusturing based

 Hybrid

Classification:

Ca) Naive Bayes Classifier This approach uses Bayes theorem which describes how conditional probability. of each of set of possible consentor a given observed outcome

P(C/X) = P(X/C). P(C) = Class priore
P(C/X) = P(X/C). P(C) = Probability. P(X).

Predictor prior

Posterios Probability

Peobability.

(b) SUM Classifier:

The support Nector Machine (SVM) is a algorithm to perform sentiment analysis. It analyzez data, define decision boundties and uses cernels Pos Computation.

Conclusion:

Twitter sentiment analysis is performed to identify which are hate tweets and which are not.