Assignment-DAY

- * TITLE: Tweither Data Analysis.
- PROBLEM STATEMENT: Use Twitter Data for sentiment analysis. The slatewell is 3 MB in size and has 31,982 tweets. Identify the touchs that one huge hate and tweets be those that one not.
- * OBJECTIVE: To classify tweets as hate tweets or not.
- * OUTCOME: Identifying le removing hate tweets from Tultter
- * SOFTWARE AND HARDWARE REPUIREMENTS: Bython 3, Jupyter, pointes, mumpy, s-clean, matplotuib; UNIX/LINUX based OS, 64 bit CPU, 80B RAM.

* THEORY !

- · Natural Language Processing (NLP) is a subfield of linguistics, computer science, and artificial intelligence, conserved with interaction between computers of human language, in particulal how to program computers to process and analyze large amounts of natural large data.
- · stop-words are words that are fittered out before or after natural long data are processed.
- Stimming: for grammatical errors reasons, text can use different forms of word: There are also families of derivotronally schated words with aimilar meanings.
- Inited forms of a word to its common base word.

opicinal: the boy's can are different colors:

stemmed: the boy can be differ order

Frature selection is the process of selecting a subset of terms accurring in the training set be using only this subset of features in text classification. This makes classifier more efficient and accurrate.

reducization is the process of converting the text data into machine readable in the new vectors are related to one-not encoding, but instead of just featuring a count, they feature numerical representations where, words aren't just present or not present.

. Per this pauticular problem, which is classifying tweets as hate tweets.

The classifications methods used were Name Bayes, Random Forest, and when Support Westor classifier

· Acturacy of > 95% was arriened

@ mentions, numbers & punctuations.

. The buests need vectorized (TPIDF) and split into training lettert data.

. The 3 models were fitted be then used to predict the labels.

* CONCUSSION:

Successfully classified facets as hate tweete or not.