

4863

Step 1: Text \rightarrow datanltk \rightarrow text processingconv text into numbers into numerical/
vector

embedding

Pre-processing step

1. First we remove numbers from text.

2. Handling capitalization & punctuation

The \equiv the \rightarrow count for representation

, comes 10 times

cat (can't justify importance)

3. Stemming and lemmatizing

playing played raw form: play

Both have the same intent.

bring all the words to raw form.

x x x x

Troubling clean text

lemmatize = False stemmer = True troubl

= True

= False trouble

won't completely bring to raw form

Model will understand

1) Bag of words:

Broke paragraph into words.

Give a number to all number

50 distinct words (50 sized vector)

Ex: Trouble \rightarrow 26 position

one-hot encoding

represent count of words.

higher term freq \rightarrow higher imp

the (common word) \rightarrow no sense to take this into consider.

classmate

Date

Page

Term frequency \rightarrow this word in the doc \rightarrow more imp

TF-IDF

data \rightarrow 10 diff doc what you all call as a database
a word occurs 1 times, 3 times

\rightarrow The number of times a term occurs in a document is called term frequency.

$T.F \times \frac{1}{doc\ freq}$ \rightarrow lower down importance

doc freq

word that occurs in 3 documents

Review-dataset

\hookrightarrow is it a positive or negative

we use Bow & TF-IDF Text into numbers

featureization

62% acc

70% acc

Cross-validation

Spam dataset; 92% acc with Bow

98% acc with TF-IDF

till what extent we need to bring to a raw form

lemmatization brings to a raw form, better choice

\hookrightarrow raw form.

what emotions are being reviewed

Spam detection: whether it is SPAM or HAM on Kaggle.

good 256 size 10, lakh

on how

n gram \rightarrow 1 word sentence

1 gram \rightarrow 1 word at a time
2 gram \rightarrow 2 words at a time.

T1