11th April 2023

ext Preprocessing Using NLTK

lets begin @ 9:05 pm

Image: numerical > (0-255) Output y. Input 2 -> numerica · chatbots
· SA recommendations · text to speach / vice versa. language models. text summarization.

text — mum

Chat GPT-4

test -> numerical - Cowercase the data. - stopwords.
- tokemization - Bagot Words (Bow)

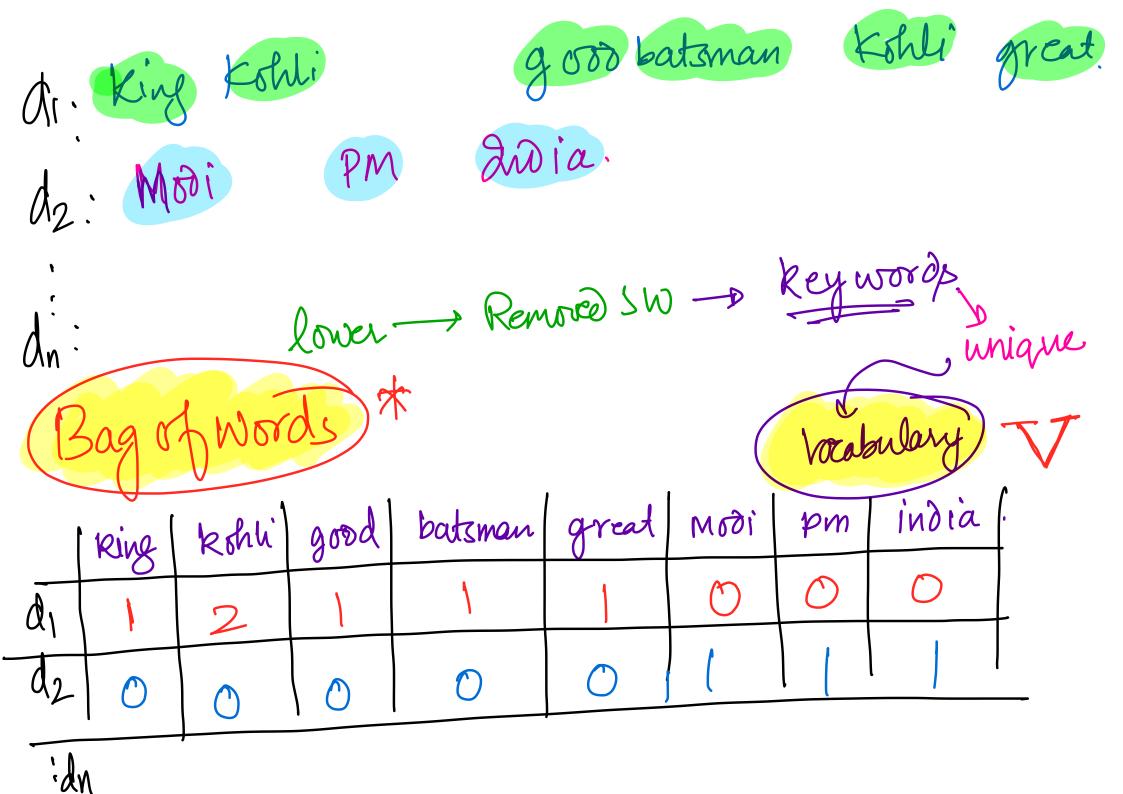
- Stemmy/Lema fizations Case striog Co Similarity score.

eg.) Night value in stocks creats high return.

Tright return.

The King Kohli is a good batsman. Kohlispreat. D Mai is PM A awia. is/a/the/of stopwords. remove X. (Reep keywords)

Grammerly & stopword may be dup.



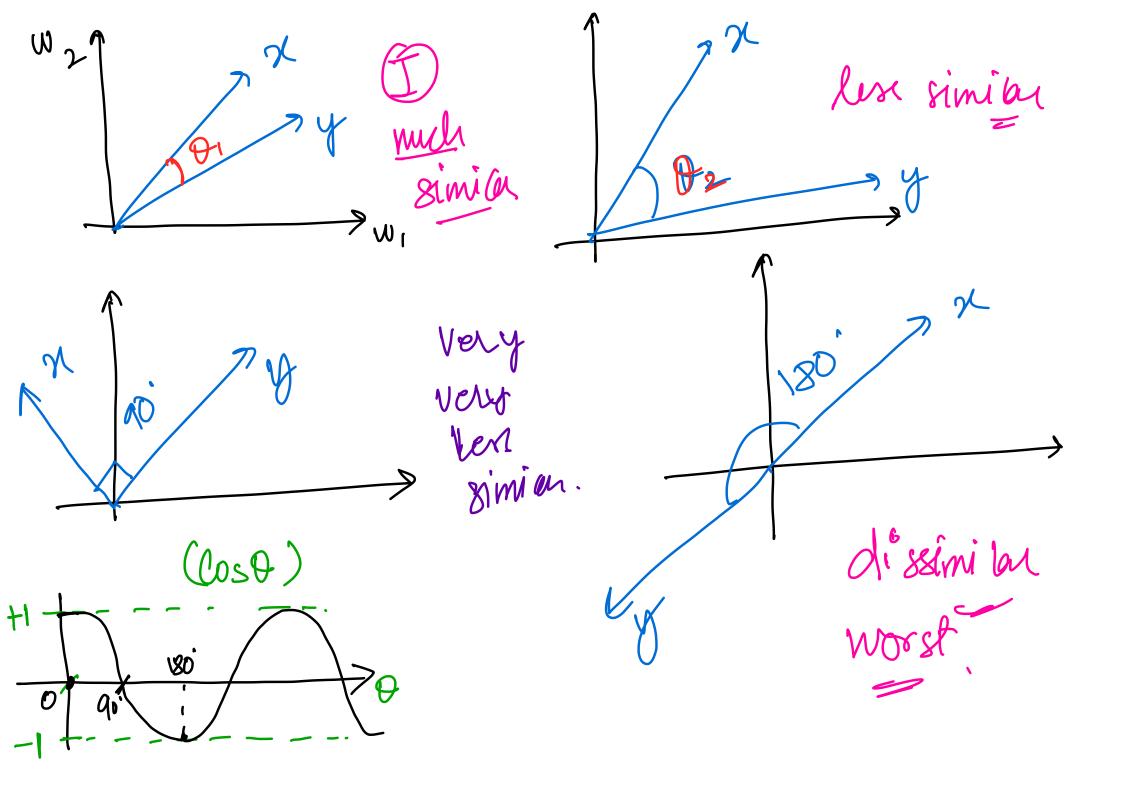
8 # unique Reyfords: V (10000 X 8) mimerical Lypes of downents politics. | Ring | Rohli good | batsman great Modi | pm | india |
| 0: d1 | 1 | 2 | 1 | 1 | 0 | 0 | 0 |
| 1: d2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

(0,0) -> 1 (0,1) -> 2 1000 X 200 (0,2) -1 (0,3) -1 J, 90%. are zero )  $(0,y) \rightarrow 1$ only stores non zero positions in matrix.

(1) Stemming: aut down. only one word warm/warmer/warmest? Flay/playing/played Algorithm Cutting with some rules SNOW BALL (I) PORTER (english) Chinese, japanese,

\* Caresses Tule: 'Sses' -> 'ss' / ties ti Tull: 'ies - "i' Not taking GRAMMER into aurount

2) Lemmatization Jemma Base word taking grammer insto account. follows rule of Granmel.



刀火(215)  $\chi \rightarrow (215)$ dot produit Similarity store