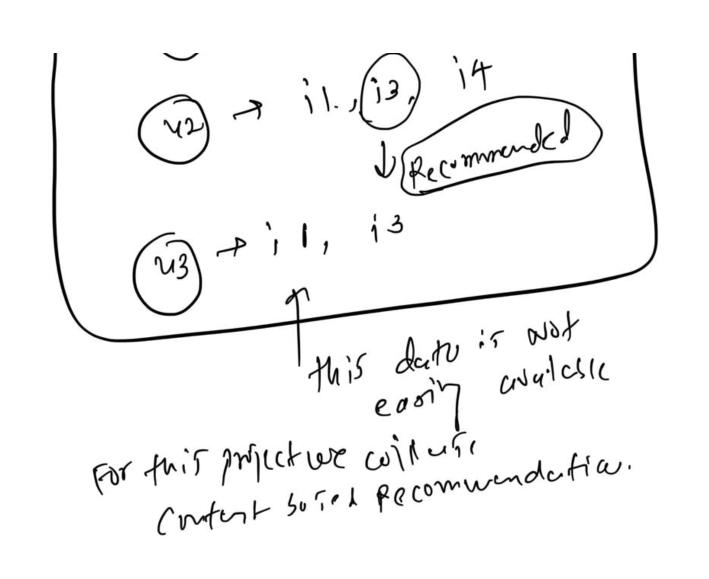
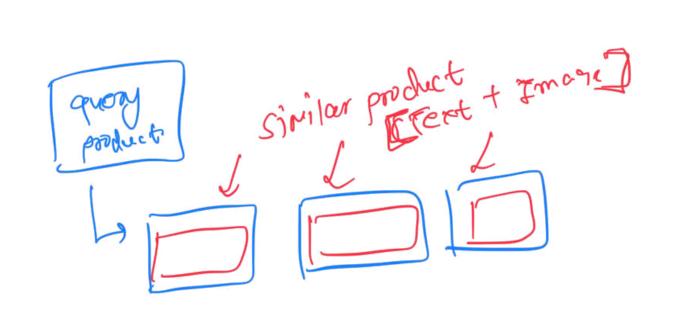
Objective of the posject We want to Recommended

the product that user

the product currently posting

has Why, we core about search beout. comated 35% moras. antent based (Text, Tmage description Recimmendation Collborative Filterry (2) -> i1, i2, (i3)





Plan of Attack data a cquisition due cleaning Text -processing Limcor Algeboce. Text bused psoduct Recommendation. \* BIN × WIV \* 7F-7PF Image bused product pecommendation AIB Teoting Future Work

Data sot Imformation 3) [0/0 × G Jitte S rite Price (2) dutu cleuning Very important werborred

X busic EDA Top products
Top 10 Most Frequent × DE pro duots Jou Chos Cho Jours x Top to brands

\* Real Marlot years

South of the stands of the sta

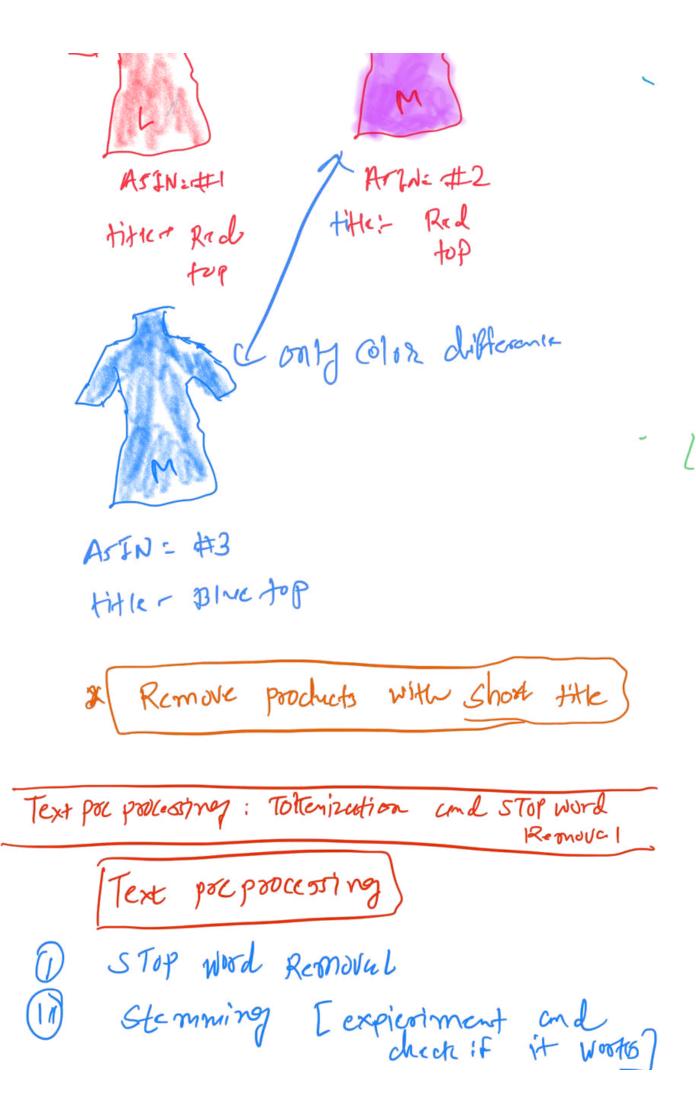
\* Remove duplicates.

& Find duplicates title

panda dataFranc. duplicated (Filell)







First at approach Text bused similarity Vector [ productA] product title Jector [ product product title



(i) Simple BOW Vectors.

TI, T2, T3 ---- Tn (Title)

Devild vocabulary set as ]

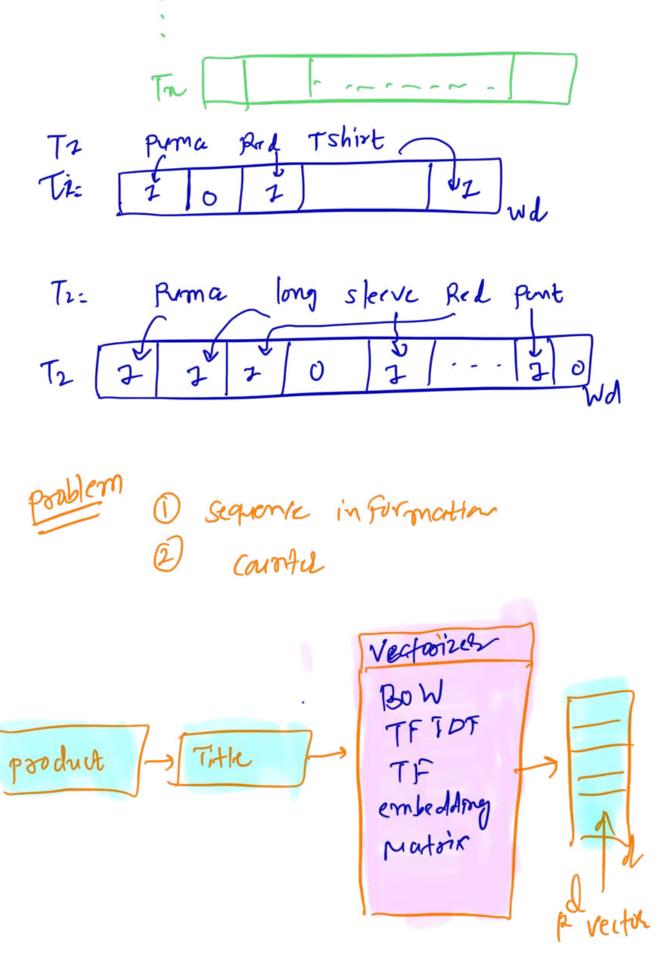
S = all the words on all the set of the services was a little.

SERVITE. Was discoursed by the way.

2 okenerate vectors using 130 Wh Ti WI(VI W. .... | Wd)

The Why wh .... Wd

.



(1) ROW -> rectors

Vory Book Vector This very bis matrix store in sported form get rectal -> BIW use Eucledean distance FOR pair vise distance of the nords W2 WI WI

dist [tinti]= = [Tik - Tik]

dedupiration proved

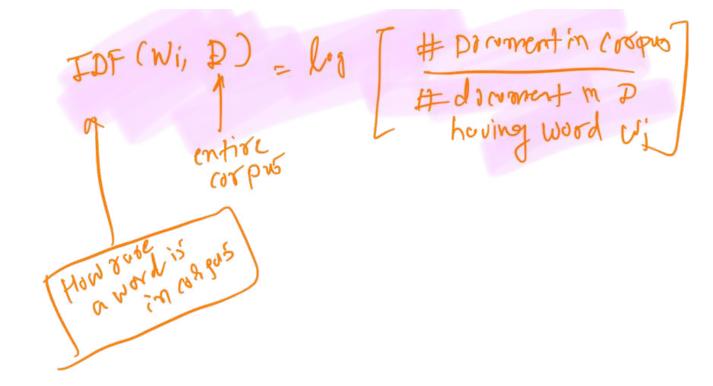
com be improved

2. TF TDF based approude

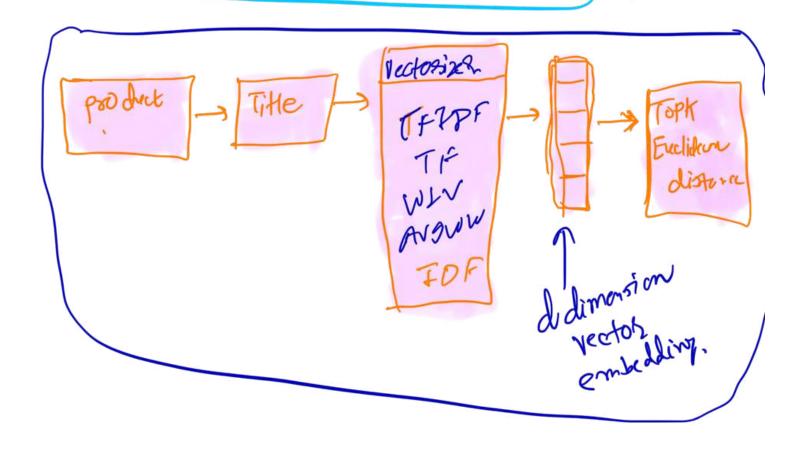
Term Frequency TF

Frequency TDF

TF [Wi, Ti)= # times wy occurses in Ti # words in Ti



TF IPF Vector
T, -> W, W2, V3 Wd
WI -> TF (WI, T;) & IDF CWI, P)
80W WI WZ Wd readur 32
FZPF 0-2 0-02 0-05.
TEIDE COUD 1 -> TE 7



TF IDF vestells were better than IDF.

problem with TF ZPF



Object uton 1) words don't Repeat
Mostly in our dateset

## # WOI WO !.

Ti-> WI, W2, W3.. W4, W5, W6... W10
Ti-> WI, W2, W3, W4

# if all word Forenency is I then

FOR TI [TF(Wi, Ti)= = 0.1

Fos 5 TF CWj, 752= 1 0.25

this algorithm will pursuant title

We can use directly TDF

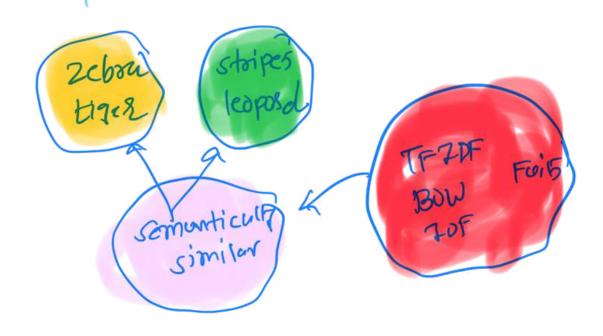
This experiment we should a

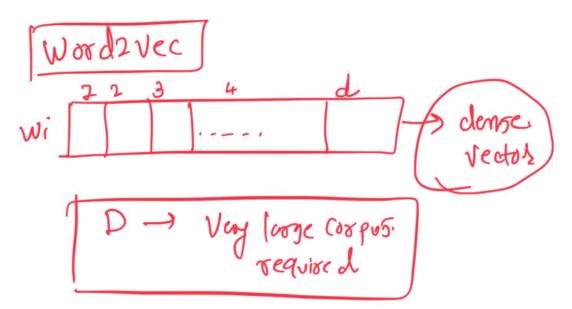
This experiment work

Try, it may not.

or it may not.

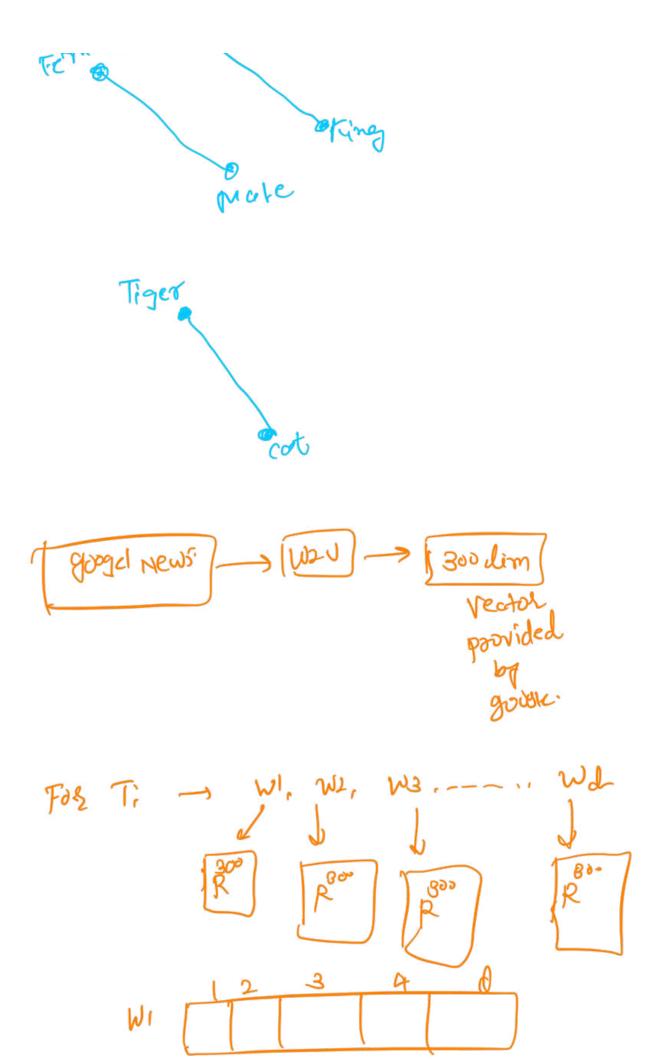
## semantic similarity

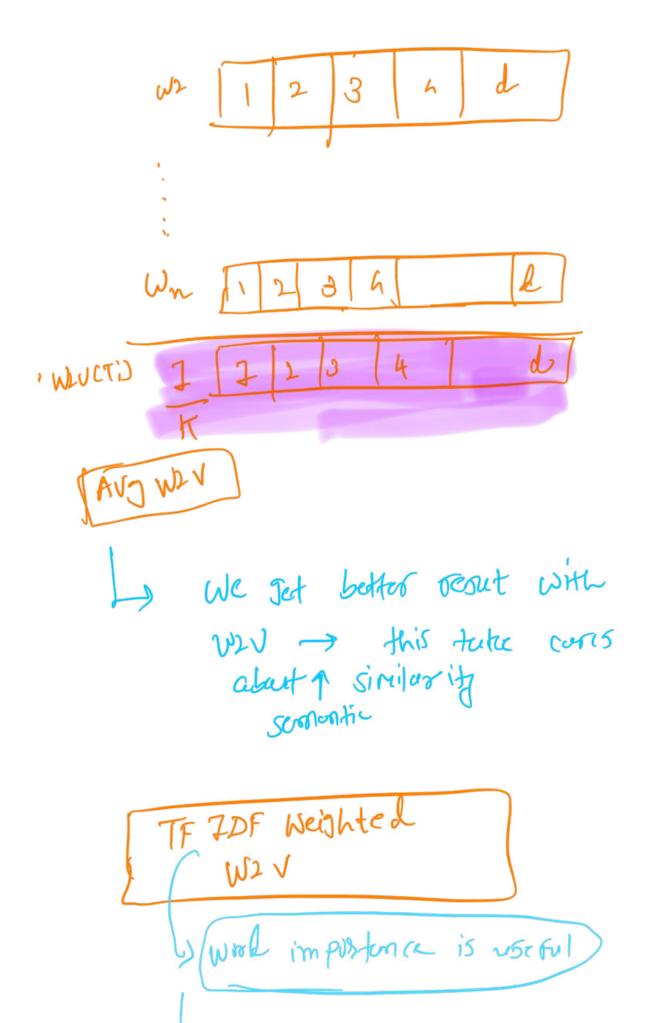




geometric intertion

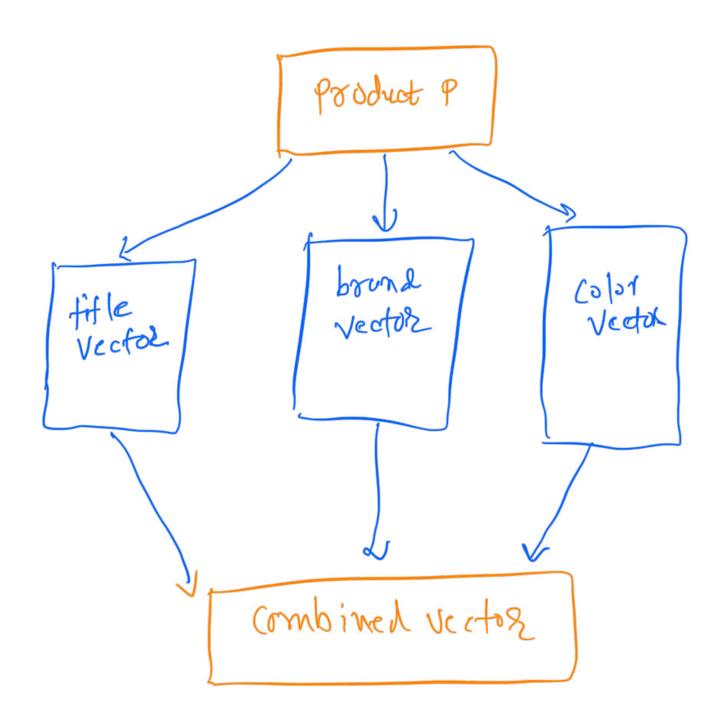
-make gyern





semantic similarity.

restray bound and cond color and other Features



bound / one hot emaded bl. 62. b3.... bm one hat encoded C1, C2, C3 ... - CK ( ) 56 300 -> K-m-> / <-m-> bound Co 128. use Eucledeur

1) prefer showing customes to

## speaker bound or alor

750 Weighted Euclideon distance

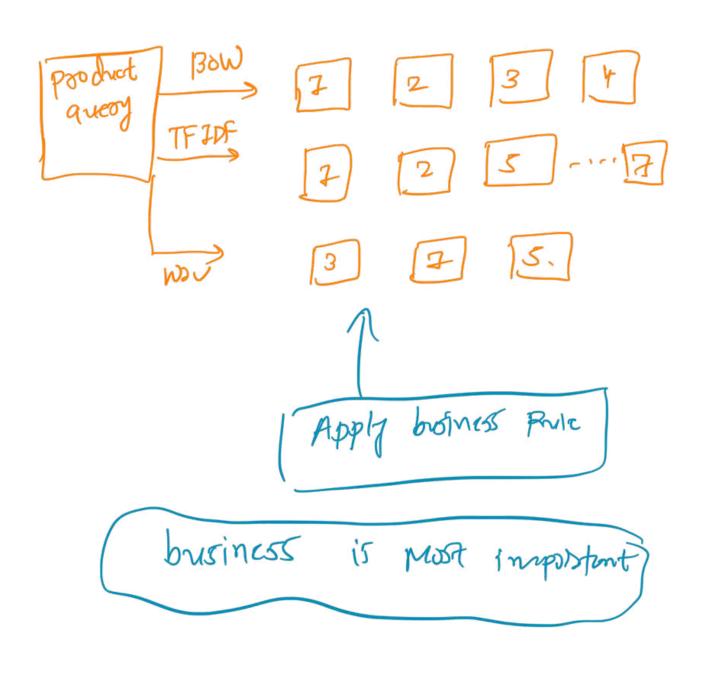
Writte=1, Wound=3, Walvi=7

distance = White \* title Fecture

+ Wormh & board Fecture

+ Wooder & Color Fecture

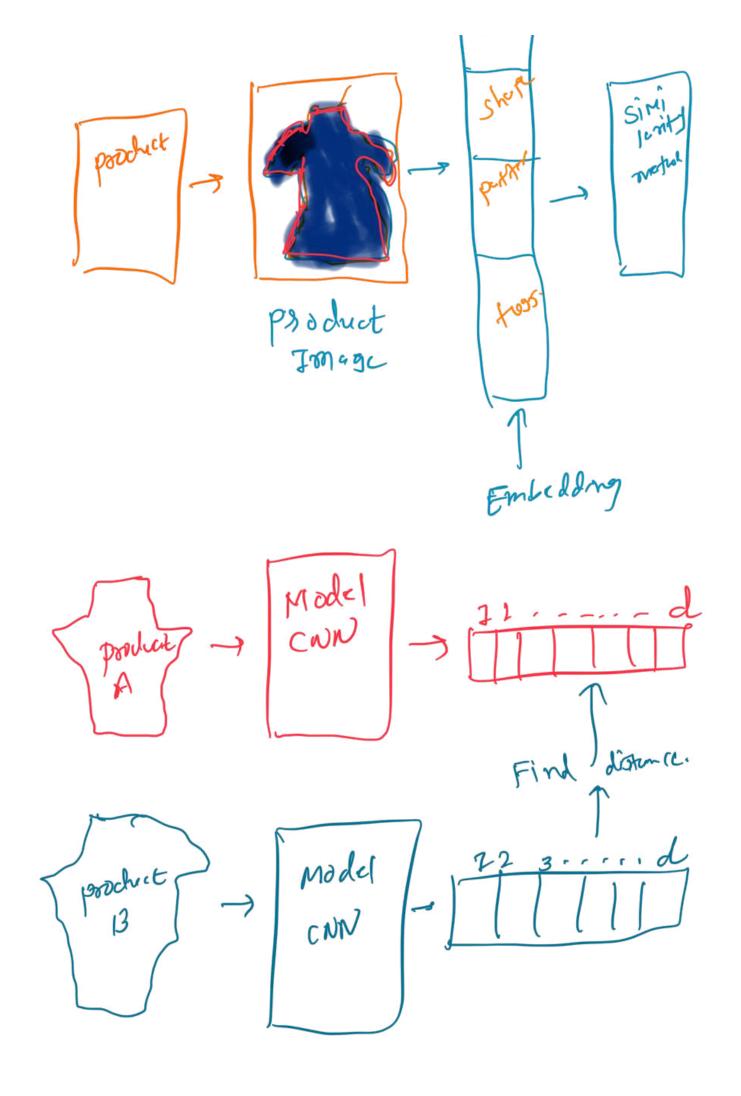
building Red world solution.



Deep Learning based visuel similarity.

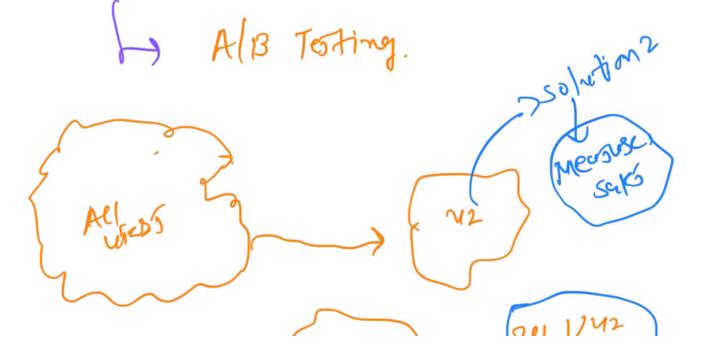
Algositum Remains Sume





AlB Testing

How should we evaluate solution 2 and solution 2 and solution 2 quentativey)



Silution 2 Masure sales. Seles [re1] > Sules [re2] colution 7 15 goods