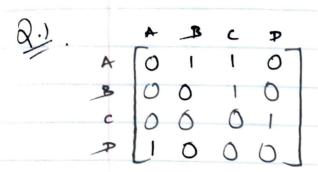
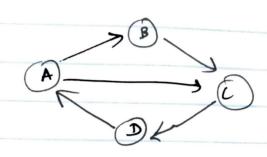
MID TERM

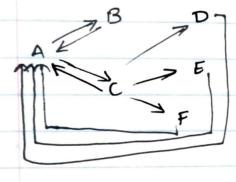
Name: Hariom Menta

CWID: - 10453223





Q.2



Formuly: -

$$PR(A) = (1-d) + d(PR(T)) + ... + PR(Tn)$$

$$((Ti)) + ... + (CTn)$$

2

2

PR(A) = Page Ram < Of A

PR(T;) = is page Rank of Ti Page which is linked to A. CT; = No. of Drawn Links

d = demping fector = 0.15 (given)

Initially we assume that pageRomy for all page is Equal = 1.

$$PR(A) = (1-0.15) + 0.15 \left(\frac{1}{1} + \frac{1}{4} + \frac{1}{1} + \frac{1}{1} + \frac{1}{1} \right)$$

$$= 0.85 + 0.15 (4.25)$$

= 1.4875

PR(B) =
$$(1-0.15) + 0.18 \left(1.4875\right)$$

= $0.85 + 0.15 (0.74375)$
= $0.85 + 0.15 (0.74375)$
= $0.85 + 0.15 (1.4875)$
PR(C) = 0.9615
PR(C) = 0.9615
PR(D) = $(1-0.15) + 0.15 (0.9615/4)$
= $0.85 + 0.15 (0.24037)$
PR(E) = $(1-0.15) + 0.15 (0.9615/4)$
= $0.85 + 0.15 (0.2403)$
PR(E) = $0.85 + 0.15 (0.2403)$
PR(E) = 0.886

PR(A) is maximum.

0.3. The nain difference between Page Rank Algorithm and Certrality Measures (degree contrality) is pagerink Algo, works on number of pages and quality of pages lines of a perticular Page where us degree centrality focuses on nodes cpage) with highest degree it has

Network's characteristic path length: - It's the shorrest path between all vertex fuis. as puth length $u = \begin{cases} \frac{d(s,t)}{n(n-1)} \end{cases}$ d(s,t) = distance between n: total number of nodes in gruph G bets calculate a for given greigh a = for mode (A) + for mode (B) + for mode (C) node = 4 + for node co) edge = 6 $\frac{1}{4} = 1 \left[\frac{d(A_1B) + d(A_1C) + d(A_2D)}{d(A_1C)} + \frac{1}{4(4-1)} \left[\frac{d(D_1A_1)d(P_1B)}{d(D_1C)} \right]$ 1 (4-1) [d(B,N)+d(B,c)+d(B,d)]

 $\frac{+ \frac{1}{4(4+1)} [d(c,8)+d(c,8)+d(c,0)]}{4(4+1)}$ $\alpha = \frac{1}{4(3)} [3] + \frac{1}{4(3)} [3] + \frac{1}{4(3)} [3]$ $- \alpha = 1$

Network 92 ! -

$$\frac{+1}{6(5)}$$
 [2+1+1+2+3] $\times 2$ (for c, D)

$$=\frac{1}{345}\begin{bmatrix}155\end{bmatrix}+\frac{1}{3(5)}\begin{bmatrix}11\end{bmatrix}+\frac{1}{3(5)}\begin{bmatrix}9\end{bmatrix}$$

$$= 1 + \frac{4}{3}$$

$$a = 43.33 > 2$$

9.5

Tim Berners-Lee was british scientist who developed World wide web (www) mile working at CERN.

The main idea of wow was to merge the new technologies of computer into one global information system

HTTP code 200 - shows success. That

HTTP request is accepted by client. HTTP code - 464: - Not Found. Server coald not find the regulat.

HTTP ude 401 - ununthorized request made

9.7

Regular Expression is sequence of characters that

import re Pattern = 'r "1651w+" test = "This is Super car" result = ne match (pattern, test) if result? Print (" Successful") Else! Print ("Unsiccessful ")

I web pages UPLS Multi thread downloader Scheduler Queue URLS Storm Architectione of a web crawler

Q.9. unile crawling web, we come accors some Websites min has little bit different name but it'll get us to same website. With the Help of dedulticution it com can compaire the response of websites and will keep original of latest version of it.

Example (ii) www.google.co.in

Q.10 Revising Policy: It tells aquiler's How Often to cheek for changes to a Page.

Age tells about now old page is and freshness is when was the kest time information was upduted to that page.

9.1)

POS Taggirrs is performed when we want to Extract the words (with cossidetecting the contex) from the speech (Sentenses) in linguistic analysis. It identify words as nouns, verbes, adjectives etc.

0.12

TF-IDF: TF means term frequency. Why IDF (Inverse document frequency) is Important?

For Example if in a text document the?

is very common and its frequency will be high according to TF. But IDF removes the weight of frequently words and gives the weight to other words like 'Black', 'Bird' which is actually important TF-IDF = TF (word) * IDF (word)

Eo, if there is stop word 'the! its IDF value will be 'O' so TF-IDF = O.

013

word 2 vec is 2-layer neural net. It requires of a format of 'list of list for training. Each document contained list and every list has tokens of document QIL

Der-agent:- bot Crawl-delay:- 2

2) Avoid visiting Isecrets directory
User-agent:- bot
Disculow: Lecrets1

0.15

By using SVM classification (support vector machine classification) per one to Prepure the data. We can use tokenization and streaming svm classifiers and cutegories the data as positive, neutral or negative and corresponding polarity can be calculated.

Positive Negative Recall(+) Accuracy Classification

60 60+20 = 75% = 200 = 40% 60 Positive 40+20 = 66.6710 40+20 = 30% 20

Negative

In LDA, from lots of document it builds
topic per doucument and words per
topic from the gluen as set of document
Topic formed by the n number of docs
by Running LDA. (Supported by relevent words
"Words are Extracted to define a topic
from given document sets.

D.18 Seknium is very useful possible while performing test for webapplication, ios-Apps or an Android Apps & Software testing Suppose, we need perticular type of deter from given websit selection can be useful to exmeet duty.

Q.19. By saying network 'A smeall world' means adding very smed mumber of edges randomly. The diameter tends to drop. This is known as the smeal world.

Person turnaut to connect other 6 person (connection) is small world network

2.20. I would like to learn How to mine crypto currency? How web cryptominer Works?