Graph Mining

- → Golaph mining is a propers in which the rulning techniques are resed to find a patter or the relationship.

 In the collection of graphs.
- -) By mining the graph set fouquent substitutions and the relationship can be identified
- -> These will help in,
 - (a) flooding | clustering the graph sets
 (b) finding the sulationship between the graph sets
 (c) characterizing the graphs.

sent for many pass

- -> By predicting these graph patterns any application model can be built in real world
- -) To Pomplement the graph whiling, one west worm.

 Fouquent sub graph whining.

Fouquent out graph mining

Example: det us consider a graph h welth an Edge set E(h) and vertex set V(h)

the existence of "Exomorphism forom h to h'
such a way that h is a subgraph of h'.

That us consider the labeled graph data set

F=H1, H2, H3. -- Hn

- I det us consider the support as 3(h)
- a flood the support for each and every candidate
- The two steps for frequent substruction candidates

 Step1: conate forequent substruction candidates
- stepa: blad the support for each and every candidate.
- The two methods for Substruction runing are
- 1) The aprilori based apprivace
- 2) The pattern growth approach.
- 1) The apprior band approach
- -> This appoinant finds the graphs begin with the small rized graphs
- -) This approach advances an bottom up way.
- -) This algorithm is called aprior graph.

a regal transfer

- 2) Pattern growth approvach
 - was freely and from Just for BFS (Bruadth First Search) and DFS (Depth First Search).

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to bugging was c

-> DF3 are preferred due to less memory conscimption.

Text mining

> Text data mining 98 the process of extracting essential data focom standavid language text.

greatly done proposit att parties

- I the data that we generate who text mereages, documents, emails are monisten em common language text.
- -) Text meneng es rusque to draw riseful for patterns peom such data
-) one of the palmary reason for adapting the text vilning is higher competition on the business market
- -) docas of . Text runing.
 - I Information extraction (IR)
 - mander younge with 2) National language processing (NLP) (explain each
 3) data mining CDM)

 4) IntoSmation Retrieval (IR).

-) Text milling process

- 1) Pext towns formation
- 2) Text pripolocessing
- 3) Feature selection
- 4) data ribiling
- 5) craluati
- 6) Applie atrons
- 7) Risk Management

8) customer care server 9) Business Putelligence 10) Social Media

Analysis.

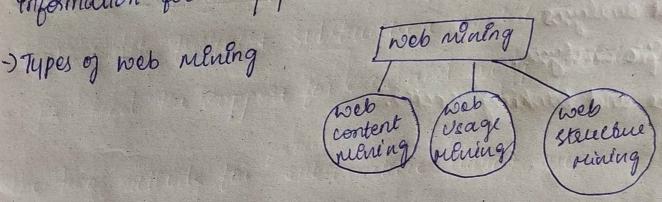
web mlulng

-) web ulning is the process of automatically discovering and extracting the information from web documents such

www.

) world wide web has become a significant source of

Proposation for the popular business platforms as well.



1) web content relining 96 used to extract useful information

-) web content relining 96 used to extract useful information knowledge forom web page content.

-) each web page 9s considered as an Individual document-

-) The palmany task of content mining Ps data extraction where structured data is extracted from runstructured.

-) eq: user searches for a task on the search engine then the ruser well get a list of suggestions.

2) web usage ruhuling

, web structure wage meneng used to extract the resetul data Information, knowledge from the webby records.

794 will assist in suggniting the user access patterns.

3) neep steutured mining -smed to find the link stauture of the hyperlink. > 94 93 weed to find the data either links the web page of link network.) eq: et is useful for organization to regulate the network between two commercial siles The second position of the second Carter Contract Contr antended support to the state of policy of policy to the is though took took religion. the doctory to constitute of a constitute of the second second strong this is content timing the last content to to design to the in collegion of the first of the collegion of the state of the collegion o The state of the s The state of the s May my the first the season of The second of th

Data visualization -) data visualization is the process of graphically representing the quantitative enformation of the data. wing graph charts and maps. -) data visualization converts the large data set into small visualized data. - 19t provides on way to understand the outlier fattering +) fearer and backer societies. The concept of data visualization was launched in 17th century, to understand the data forom graphs, charle 4 Mays. o In 1800's It was required to prechant. 5 after the decades the statistical graphics occurred. Importante

-> 9t can Polentify the need of Improvement & modification. -) clarifies the each factor of cristomer behaviour. 3 helps to understand which groducts to flave where, -) It can pridlet the sales volume. -) ygraphs 2) chout

3) line chart

4) bar chart

5) fie chart

Data ululing applications DRESEARCH FORM SIND IN A RESEARCH OF TO 2) Education 3) Health sector stable popul and approved maist A John Commission of the Commi 4) Townspoltation 5) market analysis apackapon of his a 6) Scientific analysis. 7) finance and banking sector. deter violation was founded by the addited the data finder supply that I have man a considerate particular const adis the mathetical apopulation and alle the first of top-sure The state of the s wedlington in the on their