

Information 'Letrieval V SUB: 19CS523

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Leg: 212220040009

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6.a) Vector space model 2 its advantages over Bookan model 6.b) Diff blu Data Petrieval & Info, retrieval

7.a) Inverted Index 7.b) Privacy Issues

8.a) Pre-procueing techniques with examples 8.b) Web spanning of detecting techniques

6.6) Data Polinieval & Information Retrieval

Information Robinal:

Information Detrieval is the process of retrieving information that is exact to or relevant to the query written by the user and extracting the relevant information from the documents. This information redrieval was an huge impact in the field of Web searching, web spanning and many more techniques.

Why Information Detrieval?

Suppose if we wanted to retrieve a deta

from a document the war would provide relevant
queries to extract information from the document

ectract words like warm white a query to the Data Fetriwal Mechanism would only retrieves date. Hat ecartly matches the week only query. Whereas I'm Anformation Retrieval personants of also be retrieved for the Estimation of the Case of Information Retrieval on the case of Information Retrieval on the the war quen whom In the date retrieval only the oxact specified terms are octracted retrieved board on the war quent.

So, In this case On formation Letrieval plays redrieving only the exact lerms specified in the >> Document content: All happy and cheerful people.
>> Information Restrieval:>> Inoppy, churr ful, humor sense Some models of TR sufetur Include, >> Queny: "haday"; muss >> Probabilishic Model =) Vector Space model => douguage Model Data Letrional: unes greny. "



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3===3	Information Patricial	Data Petrieval
	9) Information Detrieval tend	Data Petrieval retrieves/
	1) Information Detrieval tend to retrieve all the relevant Information from the user query	exact information from the user query.
	ii) This explicity doesn't cause any implications	This unight cause certain
	iii) This method cannot be used in Database system.	This method can be used in Database system
	10	- 7 MAN B / /
	iv) The main gotal is to retrieve relevant information	based on user query
	V) This approach would end up as too few or too many	
	responses.	
		user query.
	vi) Relevant 9n formation can be found from the Krusawi	data are extracted
	like synonymo of the given terms.	not the relevant ? not mation.

Information Petricual Data Potrieval =) Many DR models are available for Yet viowing the information. Limited Data Retrieval Methods are available. =) The succes sate is comparatively larger The success rate is Congratively limited to Data information Pot neval speed is higher as only the mothing terms of the user query are octracted. =) Detrieval process is Slower when compared to Data Petrival. Precise quantity of results 9n Data =) The results of Information retrieval are larger in quantity Pet neval => Thesawi terms like synonyms and more Thesauri verilts are not Included In Similar terms are Data Retrieval. octracted In the results => Data base managing users could not efficiently use this approach Data base managing users could use this data retrieval approach.



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Shrevet Sake 7. b) Privacy Issus. In this world of Web, people tend to use many web sites and surf internet for plurposes. We also toud to uplose many private information like phone number, address in wany forms and in social media.

This would probably evol up in privacy
Issues. These privacy web search issues
would evol in opening up many freats
related to Security to the avers.

Some privacy issues include without the preserving
measures: > Vious/ Malware attacks: Intruders would tend to infect the wrests pc with virus and Malwares like Trojan, Pansomware to the personal computers and would try to back the personal information of the wers.
They might also would to know the Sensitive quer mation like passivords Thorder to juter vent the system and hijack it. This would be so crucial if it is being attempted in a large organization with

elevated economic status.

Story of the Trafe ond the out of acting and the continuous Sinder most of the private attacks being from and thouse of the private of the private of the private of the serious security of the the that comes serious security of the the that comes serious the two one this one the the two was the two one debted town Smow notableton? wowith : notable for ? survitur = => Glentity that.

Thuse attacks Include duplicating only its porsonal only include duplicating only its parsonal one increase only in large man one and many more increased one modice and many more increased. The spewment of the poops and the poops to withing with the search town the guilding withing withing with the poops rounds of the poops rounds of the poops rounds of the poops rounds. The guard the poops rounds of the poops rounds.



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8. a)	Pre-processing Techniques:
	Dre-processing is the process of removing unwersary voice from the data before
	Pre-processing is the process of removing unwersamy voice from the data before providing the data as imput for data analysis or any other manipulation techniques.
	the pre-processing Techniques in Information Detrieva
10	=> Tokenization
	=) Stop-word Elinivation
	=> Stemming of milwands townst
	5 Index O Selection
10 10 10 10 10 10 10 10 10 10 10 10 10 1	=> Post searching Thisaum
	The same of the sa
10	Tokunisation is tom - procession technique
	that extract the exact to kens from the Somment
	Tokunization is a pre-procursing technique that extract the exact tokens from the Locument The would involve the retrieval of specific data from the user query.
	A LE CONTRACTOR CONTRA
	Eg: Doument: "The quick brown for jumps over the lagy Query: "quick fox"
	Query: "quick fox"
	0 10:

chared from the document. Here after removing entitles and adjectives,

The Land forms are restricted so under

at the last in the data is " quide" - adjectève

" (azy" - adjective Here the terms, "the", "quick", "lazy",

One divinivated and the required temptons

ordone are quinitated.

The requirements of the control o After Appenerd - elimination: brown fox jumps own day This approach.

Document: The quick brown for jumps over the from the downerd. Articles are also removed in Common Appends like propositions, adjust & speech promoners, advorbs and beind & part of speech and we shiminated to retrious the relevant Trips mattern In the stoundard dimination the : nother will stan -got Hore "in this fectinique, the exact hords,"
"quide" and "px" one retrioued from the





ated to Anna University Approved by AICTE
Stemning: Stemning is the process of removing unwanted parts of a word. We would have different
Stemming is the process of removing
unwanted parts of a word. We would have different
forms of words for a single word, it would
be abjective, ådverb or nown. So the suffix
O) the word or the trelix of the word are
climinated and male the root wood is some
extract 1 and the
of the word or the prefix of the word are eliminated and only the root word is some extracted 9n the process of Stemming.
Downert: "He attempted the task much quicker and faster than the one who previously attempted 9t" After Stemming:
Journant. The anamples The Parsk Which guides
and faster than the one who
of Co. O Dreviously agle nipted 1t
After Stemming:
He mod words ordracted are, stemming,
the most words extracted are,
"He", "attempt", "the", task", "muck", "quick"
"aus", "fast", "than", "one", "who", "previous",
" attempt", "it". So, in this approach the
Junwanted noise in data is removed.
"He", "attempt", "the", "task", "muck", "quick" "ans", "fast", "than" "one", "who", "previous", "attempt", "it". So, in this approach the Junwanted noise in data is servoved. There Selection:
TOBEL SULVION 18 TIME 1) POURS
Speleiting the most relevant and sections from the Sections of the document. These terms are selected as Index terms of the document such
Trupostalit Keywords from the Sections
of the Loument. These terms are selected
as Index terms of the document such
that from there term, the "rupo stant
1

Manual Indexing:

Manual Indexing:

Manual Indexing Jeals with the

Selection of the Evolex few ms by manual

The The Manuals.

Mutomatic Indexing:

This Automatic Fordering would

Involve, Selecting / yetrieving Index ferms by

Machines automatically without Munan

Enterwention.

The would Envolve Web scarding The would Involve Web scarding and web Indexing earier and calculating I separate page ranks of the webpages. Thisaun: This aim method of the processing involves retrieval of the relevant date of the super the document this would result in the retrieval of relevant data from the user query. For example,

You retrieving the document data

"He sat down in a place where he felt

Calm and peaceful"

By using the sawn,

The synonyms "Calm", "peace"

both yorieved as they are relevant to

lach other bating the the retrieval of

relevant information.