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INTRODUCTION TO WEB MINING

Web Mining Definition

 Web mining is the application of data mining technique to extract useful knowledge and to find information patterns directly from Web data i.e. from World Wide Web.

 Web data is made up of web documents, services, text, images, audios, videos, records, hyperlinks, tags, http logs, app server logs, etc.

- It is also used in finding pattern and knowledge from web contents, web structure, web usage and web dynamics
- It is a complex method
- Advanced and Useful data mining process
- It is development of scalable and effective web data analysis and mining methods

 Web mining is used by Data scientists and data analysts.

- In Web Mining we have information in the form of structured, unstructured and semi-structured web pages.
- Special tools for web mining are Scrapy,
 PageRank and Apache logs
- Very challenging and fast evolving field in the data mining

Web Mining Tasks

- Web Usage Mining
- 2. Web Content Mining
- 3. Web Structure Mining

Web Usage Mining

- Web usage data includes http logs, app server logs and all log related data
- Also called as log mining
- Used for mining the web log records
- Used to discover user access patterns of web pages by mining web log records
- These patterns enable you to understand the user behaviors or something like that.
- By analyzing web log records, we can find out access to particular website, its access node, IP address etc.

Web Content Mining

- Also known as text mining
- Web page is made up of various content data
- Web content data includes text, image, records, tables, List, audio, video etc.
- Process of extracting useful information and pattern from web content data is web content mining.
- Provide useful, effective and interesting patterns

Web Structure Mining

- Web structure data includes hyperlinks, tags, etc.
- Structure mining basically gives the structured summary of a various websites.
- It makes use of graph theory
- Website is considered as graph where webpages are nodes and hyperlinks are considered as edges
- Very useful in determining the connection between web pages and websites.

Applications of Web Mining

- Used by various Search Engines like google, yahoo etc.
- Used in E-commerce for Customer Behavior Analysis
- Used for the Transaction Analysis
- Used in E-Banking
- Very useful for the Web Advertisement

Used to categorize web documents

 Used is most of the E- Commerce fields like E-Learning, E-Governance,

 Used in various Web Page Categorization techniques.

Used for Web Spam Filtering

To identify topics represented by web documents

Thank You