DUM Assignment-6

Apply your knowledge of a lust crawler in content mining.

Perceible the basic components of a unb crawler of explain

how it decides which pages to visit first what are 2 common techniques it uses to avoid visiting the same page multiple fimes.

A web crawler, also known as a spider or bot, is an automated program that systematically browse the web to collect and inductinformation from lub pages for various purposes, such as search engines & data analysis Basic components: UKL Frontier: A queue that manages URLs to be visited, prioritizing based on virturia like relevance or freshmess. · Downloader: tetches rueb page, content from the URIS in the URL frontion · Parsex: Analyses pages to extract text links and metadata while identifying new URIS to add to the · Oxtorage: Daves exampled data in a structured ornat, usually in a database. Page Prioritization: Translers souse strategies like Bread to first Search CBFS) or Buority Queues (based on relevance or freshness) to decide which pages to visit first. Deduplication: keeps a list of visited URLs to Cononicalization: Ensures different revisions of the Same page are identified and only the cononica FOR EDUCATIONAL USE (Jundaram)

Explain what web usage mining is and how it can be beneficial for a subsite. Brovide an example of how web usage mining can help improve user experience on an e-commerce site. What type of data would you analyze to gather insights from (yer behaviour) Web wage ning analyzes user behaviour from web logs to Mentify Chatterns that improves user experience perelleremance * Benefits: · Lesgnalization: Adapts content and secommendation · Reformance Improvement: Helps resolve issues like Slove-loading pages that affect engagement E-Commerce Example: Analyzing user navigation and click patterns can identify Obottlenecks peocess, such as users abanding their carts at the shipping optimizing the checkout Stage. This insight can lead * Key Data Types: - (1) Access Logs: - show visited pages. Analyzing these helps e-commerce sites boost conversion rates.

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