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Questions

1. Discuss the information retrieval techniques one can use in searching for information.

2. What is information literacy?

b) Discuss the characteristics of an information literacy person

1.Discuss the information retrieval techniques one can use in searching for information.

Information retrieval (IR) is the activity of obtaining information system resources that are relevant to an information need from a collection of those resources. Searches can be based on full-text or other content-based indexing. Information retrieval is the science of searching for information in a document, searching for documents themselves and also searching for the metadata that describes data and for databases of texts, images or sounds.

Information retrieval techniques are used to extract the relevant information from the natural language document and represent it in a structured form suitable for computer processing.

IR models

An IR model specifies the details of the document representation, the query representation and the retrieval functionality. The functional IR models can be classified into Boolean, vector, probabilistic and inference network model.

Indexing techniques

There are several popular information retrieval indexing techniques including inverted indices, signature files.

Searching techniques

There are various searching algorithms, including linear search, binary search, brute force search, etc. Some general algorithms are described below;

1. In linear search algorithm, is a method of finding a particular element or key word from list or array that checks every element in a list, one at a time and in sequence.
2. Brute force search is a very general problem technique that consists of systematically enumerating all possible candidate for the solution and checking whether each candidate satisfies the problem statement.
3. Binary search algorithm, it finds specified position of the element by using the key value with in a sorted array. In each step, the algorithm compares the search key value with the key value of the middle element of the array.
4. What is information literacy?

According to Associations of Collage and Research Libraries (ACRL) Information literacy is a set of abilities requiring individuals to recognize when information is needed and the ability to locate evaluate and use effectively the needed information.

The ability to articulate one's information need. The ability to identify, locate and access appropriate sources of information to meet the information need. The ability to effectively use information resources, regardless of format.

Also, information literacy can be defined as the ability to evaluate information for accuracy and usefulness.

Also, information literacy can be defined as the way to transform data to information to insight.

b) Discuss the characteristics of an information literacy person

An information literacy person is a person who is able to recognize when information is needed and has ability to locate, evaluate and use effectively needed information.

The following are the characteristics of an information literacy person

* Determine the extent of information needed.
* Access the needed information effectively and efficiently.
* Evaluate information and its sources critically.
* Incorporate selected information into one’s knowledge base.
* Use information effectively to accomplish a specific purpose.
* Understand the economic, legal, and social issues surrounding the use of information, and access and use information ethically and legally.

**Know**

Decide what is required to answer this question/what is required to do the assignment/what the question, assignment, etc. means to you

**Access the needed information effectively and efficiently**

* Select appropriate search tools and information sources
* Design search strategies
* Implement search strategies to find information
* Assess and select search results/found information
* Manage and record relevant search results/found information
* Refine search strategies, if necessary, by repeating "know" and/or "access" processes

**Evaluate information and its sources critically**

* Recognize and summarize main ideas from search results/found information
* Identify/create evaluation criteria
* Assess search results/found information with evaluation criteria
* Judge in comparison to existing knowledge
* Refine search strategies and/or evaluation criteria, if necessary, by repeating "know," "access" and "evaluate/incorporate" processes

**Use/Incorporate Ethically/Legally**

* Apply new information ethically and legally
* Integrate and synthesize new and existing information ethically and legally into paper, project, performance, etc.
* Acknowledge new information used in paper, project, performance, etc. without plagiarizing and by appropriately attributing and citing sources
* Share paper, project, performance, etc. with others using appropriate communication medium, format, technology etc.

**Remember**

Transfer knowledge gained from this process to future questions, assignments, etc.

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