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I. Short Answer Questions (5 points each question, 40 points in total)

1. What is the meaning of search engine for human beings?

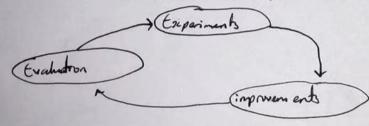
- Search engine means a system that brings information requirents in life and study.

- This kind of information requirements includes navigation Information and transaction.

2. What is the relationship between search engines and big data? - In the contest of big data era , search engine optimization plays a crucial role in the potential dissemination of Personalized content that rejects quality.

This quality is related to the curation g content and proper usability in the web-based systems in order to cover users information reads.

3. What is the common/universal model of performance evaluation?



How to build Query sample set? Assild the gueny sample is based on three aspects. truth, typical and completeness. + Assess search engine for example Baidu or google and type some words.

Please describe the Word segmentation method? > splitting a string of worther language into component words is spely divide the input string into substring. I denting the best technique that would aid in the extraction of keyword from the text.

- Thinkse and English segmentation hold: Jiebn and Spacy.

How to reduce the size of indexing keywords? + By either forward index or raverse index table. > The data is stored in parallel storage units called blacket to increase the overall throughout expiciency of the index - Pregiston rocall, y-measure, average presigion, string matching.

7. Please deserbbe basis/main factors of sorting search results? The values dipresences - Navigation query: when query: my "Exam" the Isak analysis results, should account for the origin weight. + granution query's when querying the "graduate antrance examination", the weight of the content search rosults should be 8. Please describe there kinds of Information retrieval models. 7 Boolean model + also known as Exact - North retrieval characteristics that the user words the downend to have - Vector Space model weights calculation in query word or document.

7 Probabilistic Model retrieval useful to derive runking II. Comprehensive Analysis Question (15 points in total) Please describe five steps for retrieve subsystem.

i) Receive user query words

ii) get candidate result documents from invested indea table,

iii) (aboutate various parameters that agrect

the sorting of retrieval results.

iv) merge each parameter to get the final value used for something-

v) The sorted result document is returned to the user.

Comprehensive Designing Question (15 points in total) III. Please describe the process from a given query to get final results.

The process from a given query to the final results is well illustrate as plans:

Given G = (V,e) if there is another graph g'=(v',e'), if v' is included in V 9 e's included int then is a subgraph of G.

if vi is contained in V Pe contains all the edges between the node subset i'

IV. Chinese literature reading and Translation(30 points in total)

数据挖掘是通过分析每个数据,从大量数据中寻找其规律的技术,主要有数据 准备、规律寻找和规律表示三个步骤。数据准备是从相关的数据源中选取所需的数 据并整合成用于数据挖掘的数据集:规律寻找是用某种方法将数据集所含的规律找 出来: 规律表示是尽可能以用户可理解的方式(如可视化)将找出的规律表示出来。 数据挖掘的任务有关联分析、聚类分析、分类分析、异常分析、特异群组分析和演 变分析等。

Date mining is a technology that analyzes piece of data and pinos its rules from a large amount y data. It mainly includes three steps ! data preparation, rule finding and I out the Paw contained in by some nethod; rule representation cogness the journ rules in a way that as possible. The task of data mining inches

at analysis, cluster analysis, arrowaly analysis

Total Pages: