Assignment Project Exam Help

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- LiC: Prof. Wei Wang, K17-507, x51762
 - http://www.cse.unsw.edu.au/~weiw
- Research interests
 - Database Assignment Project Exam Help
 - Knowledge Gra
 - Adversarial ma https://eduassistpro.github.io/
- Homepage: http:/
 714
- Email: Add WeChat edu_assist_pro
 - piazza (for Q&As): https://piazza.com/class/keps8hkcron4ef
 - Lecture time:
 - Wed 1600 1800
 - Fri 1400 1600
- Consultations:
 - collaborative consultations on piazza
 - weekly consultation in Zoom (TBA)

I will enrol students manually by the end of W1 and again by the end of W2. No need to send emails to me.

Assignment Project Exam Help Add ASSignment Project Exam Help Add Selection Add Assignment Project Exam Help

- Assignment 1: 25%
- Project 1: 25% Assignment Project Exam Help
- Final exam:

details to be available later

39FL if fin

https://eduassistpro.github.io/out of 100)

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- Online learning is even harder to keep up
 - Good time management and planning skill required
- Know the regulation brikes demiclistle grity and Plagiarism:

 https://eduassistpro.github.io/giarism
 - Not an exhaustide Wist Chat edu_assist pronducts
 - Pay attention to:
 - Collusion, including Contract cheating/ghost-writing
 - Copying, including from the Internet

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- What are expected in this course
 - Many modules covering a broad spectrum of IR/NLP/SE
 - Heavy workload expected: must read and digest the textbook and slides + additional Project Exam Help
 - Requires subst
 experience & c
 - ML/DL knowled https://eduassistpro.github.io/
 - Up-to-date viewpoints understan edu_assist_pro
 & industry)
 - − → Plan your time well
- I speak fast
 - − → focus
 - → ask questions you are helping your classmates too
- Review after the lecture

Assignment Project Exam Help Real Learning eChat edu_assist_pro

- After
 - You know the answer
 - You forgot
 - You made mistakes . Assignment Project Exam Help
- Life-long learning is inevitable

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- Learn the right learning method
 Rote learning is USECES d WeChat edu_assist_pro

Source: http://gaspire.com/2016/01/18/when-doesreal-learning-happen/

- Lectures
 - My lecture does not follow closely the textbook, and will try to give you a different perspective whenever https://eduassistpro.github.io/
- Python notekagkveChat edu_assist_pro
 - Do the exercise by yourself
 - Very helpful in understanding concepts/algorithms

- New contents:
 - some new contents added this semester Assignment Project Exam Help
 - please let ou've found
- Welcome you https://eduassistpro.github.io/the
 course) Add WeChat edu_assist_pro

Assignment Project Exam Help Knowledge Assum edu_assist_exhaustive)

- Data structures & algorithms:
 - Heap/priority queue: build a heap in O(n) time?
 Assignment Project Exam Help
 Membersh orst/avg-case
 - Membersh orst/avg-case time complhttps://eduassistpro.github.io/
 - Recursion: Add WeChat edu_assist_pro
 - DFS/BFS/Best-first search

Given an array A of integers. Design an algorithm to return two elements x, y in A, such that x + y = 100 if any, and

- 1. the algorithm takes O(n*log(n)) time, or
- 2. the algorithm takes O(n) time

Assignment Project Exam Help Knowledge Assum tedu_assistexhaustive)/2

- C/C++ & Python Programming:

 - Be able to learn weight edu_assistliprories and write & debug python pr
 - Quickly learn a python-based framework in this course

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Knowledge Assum edu_assist_exhaustive)/3

- CS Architecture
 - Memory hierarchy: name the levels?
 - Bit representation biparyestring for my? How to obtain the 3rd th
- Maths https://eduassistpro.github.io/
 - Calculus: How to find the a function f(x)?
 - Probabilities and statistics: rv; linearity of expectation; indicator variable; number of heads by tossing a biased coin n times; Bayesian theorem
 - Linear algebra: inner/dot product of u and v = ? matrix multiplication

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Assignment Project Exam Help Search and Information Retrieval

- Search on the Web is a daily activity for many people throughout the world
 Assignment Project Exam Help
 Search and most popular
- Search and most popular uses of the https://eduassistpro.github.io/
- Applications And of the st edu_assiste per ywhere
- The field of computer science that is most involved with R&D for search is information retrieval (IR)

Assignment Project Exam Help Informati edu_assisteyal

- "Information retrieval is a field concerned with the structure, analysis, organization, storage, Assignment Project Exam Help, mation."

 (Salton, 196 https://eduassistpro.github.io/
- General definition to many types of information and search applications
- Primary focus of IR since the 50s has been on text and documents

Assignment Project Exam Help What westat edu_assistent?

Examples:

- web pages, email, books, news stories, scholarly Assignment Project Exam Help papers, text messages, Word Powerpoint, PDF, forum post https://eduassistpro.gnn@bets/.
- Common properties Chat edu_assist_pro
 - Significant text content
 - Some structure (e.g., title, author, date for papers; subject, sender, destination for email)

Assignment Project Exam Help Documents ve hat edu_assister Records

- Database records (or tuples in relational databases) are typically made up of welldefined fiel
 - e.g., bank rhttps://eduassistpro.githwbeig/, balances, nameswaddres edu_assisteswity numbers, dates of birth,
- Easy to compare fields with well-defined semantics to queries in order to find matches
- Text is more difficult

Assignment Project Exam Help Document edu_assist_ords

- Example bank database query
 - Find records with balance > \$50,000 in branches Assignment Project Exam Help located in Amherst, NIA.
 - Matches e https://eduassistpro.gitbulwith field values of records WeChat edu_assist_pro
- Example search engine
 - bank scandals in western mass
 - This text must be compared to the text of entire news stories

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- Comparing the query text to the document text and determining what is a good match is the core issue of information retrieval
- Exact match enough
 Many diffe

 https://eduassistpro.github.io/same thing in a
 - Many diffe same thing in a "natural language"/elikeat edu_assist_pro
 - e.g., does a news story containing the text "bank director in Amherst steals funds" match the query?
 - Some stories will be better matches than others

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- IR is more than just text, and more than just web search Assignment Project Exam Help
 - although t
- People doin https://eduassistpro.github.io/rent media, different types of weaker edu_assistens, and different tasks

- New applications increasingly involve new media
 - Assignment Project Exam Help e.g., video,
- Like text, co https://eduassistpro.github.io/describe and compare
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 - text may be used to represent them (e.g. tags)
- IR approaches to search and evaluation are appropriate

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Content	Applications	Tasks
Text	Web search	Ad hoc search
Images	Assignment Project Exam Help Vertical search	
Video	https://eduassistpro.github.io/	
Scanned docs nswering		
Audio	Addr We Chat edu_assist_pro	
Music	P2P search	
	Literature search	

- Ad-hoc search
 - Find relevant documents for an arbitrary text query Assignment Project Exam Help
- Filtering (ak https://eduassistpro.github.io/)
- Identify re a new document
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- - Identify relevant labels for documents
- Question answering
 - Give a specific answer to a question

Relevance

- What is it?
- Simple (and simplistic) definition: Helplevant document https://eduassistpro.github.io/ed a person was looking ed a query to the search engine edu_assist_pro
- Many factors influence a person's decision about what is relevant: e.g., task, context, novelty, style
- Topical relevance (same topic) vs. user relevance (everything else)

Relevance

- Retrieval models define a view of relevance
- Ranking algorithms used in search engines are based on r https://eduassistpro.github.io/
- Most mod properties of text rather than he will be chat edu_assist_pro
 - i.e. counting simple text features such as words instead of parsing and analyzing the sentences
 - Statistical approach to text processing started with Luhn in the 50s
 - Linguistic features can be part of a statistical model

Evaluation

- Experimental procedures and measures for Assignment Project Exam Help comparing system output with user expectations
 - Originate https://eduassistpro.gifhubei60s
- IR evaluation methods a edu_assist many fields
- Typically use test collecti ments, queries,
 and relevance judgments
 - Most commonly used are TREC collections
- Recall and precision are two examples of effectiveness measures

- Users and Information Needs
 - Search evaluation is user-centered
 Assignment Project Exam Help
 Keyword qu
 - Keyword qu
 criptions of actual info https://eduassistpro.github.io/
 - Interaction and weterat edu_assistnpfor understanding user inte
 - Query refinement techniques such as query expansion, query suggestion, relevance feedback improve ranking

New Challenges

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How to obt

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Add WeChat edu_assist_proAdditional features for

- Formal representation of semantics
 - <u>"set" in wordnet</u>,
 - Mamihlasingant Project Exam Help
- Common sen_{https://eduassistpro.github.io/}
 - kittens are
 - SJC often experiences dela WeChat edu_assist_pro
- Inference:
 - The cat ate a mouse → ¬ No carnivores eat animals
 - Pr[A went to Primary School in B → A was born in B] = 0.613

Assignment Project Exam Help Some of the Thingedu_assist_parn to Do

- Language modelling
 - ... as soon as [???] ...
- Semantic relation Project Exam Help
 - Synonyms: https://eduassistpro.github.io/
 - Compound AgynsieChat edu_assist_pro
 - "apple cake" vs "birthday
 - What about "parsley cake"?
- Sequence modelling
 - "time flies like an arrow"

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- To help you to understand search engines, evaluate and compare them, and modify them for specific a
- Provide bro https://eduassistpro.githpbritant issues in infokthationline edu_assistant engines, and natural language processing
 - includes underlying models and current research directions