CS3245

Information Retrieval

Lecture 0: Course Organization







Why should you care about

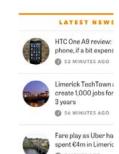
INFORMATION RETRIEVAL?

PORTFOLIO > CAREERS

The 10 hottest jobs of 2016

(15 DEC 2015 846 SHARES





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There are expected to be 4.4 million people employed worldwide in positions directly involved with big data analysis by next year. But this won't be enough. By next year, 70% of US businesses will either have a data strategy in place or will be planning one for the near future, according to one survey. The number of colleges offering courses related to big data analysis continues to grow rapidly, but there will continue to be a shortage of workers trained in the necessary skills for the foreseeable future.

Big Data: The Predictions For 2015 Bernard Marr in



The 2 Most Powerful Words A Manager Can Use Bernard Marr in



Why You Need Emotional Intelligence To Succeed Dr. Travis Bradberry in



How To Avoid Big Company Disease How Toyota Got Their



Give Yourself Space to Think Rita J. King 🗓



My Best Job Search Tip: How To Create An 'Interview Bucket J.T. O'Donnell 🛅



3 Scripts that Keep Women Stuck at Work



Bernard Marr influencer Best-Selling Author, Keynote Speaker and Consultant in Strategy, Performance Management,

Textual analysis will become more widely used

Increasingly, much of the data we are storing for analysis is in an unstructured form. Textual analysis has become increasingly sophisticated in the last few years and that trend will continue. Computers will become more proficient at "reading" a piece of text (or voice converted to text) and spotting themes and sentiments - meaning it can be classified and analyzed in the same way as structured data.

Information retrieval requests put a major strain on IT departments

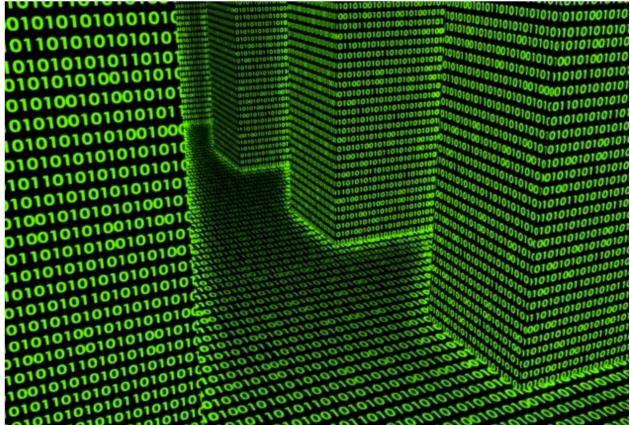






By Darren Allan | Published 1 year ago

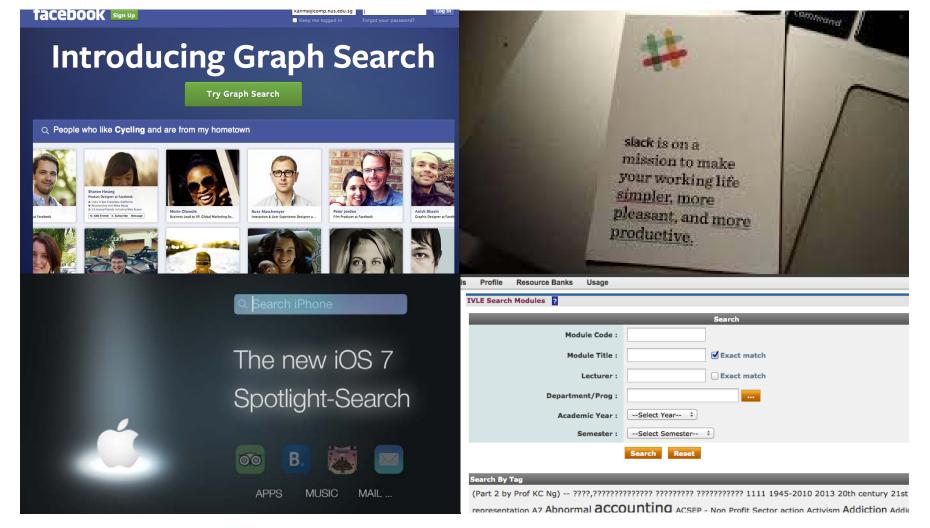




Time consuming data retrieval requests are putting a big strain on IT teams, at least according to a new piece of research.



A keystone of today's tech



Jobs everywhere







Sr Software Engineer - Information Retrieval (IR), Machine Learning (ML), Natural Language quick apply

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San Francisco



Posted 6 days ago



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SVP, Head of Search Engineering

Lazada Group

Singapore



Posted 26 days ago



2 152 views





Right at the center of attention



Databases

Natural Language Processing

How is it structured?





Information Retrieval





And now for the

COURSE ORGANIZATION

Lecturer

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Course web sites





http://www.comp.nus.edu.sg/~cs3245

- Course materials
- Homework
- Other supplementary content

When using a search engine to find our course materials, make sure you find our site for 2017/18 Sem II.

http://ivle.nus.edu.sg/

- Announcements
- Discussion forum (participation counts!)
 - Any questions related to the course should be raised on this forum
 - Emails to me are considered public unless otherwise specified
- Homework submissions (via workbin)





- Collaboration is acceptable and encouraged.
- To assure that all collaboration is on the level, you must always fill in the name(s) of your collaborators on your assignment.
- You will be assessed for the parts for which you claim is your own contribution.



Facebook rule

- You are free to meet with fellow students(s) and discuss assignments with them.
- Writing on a board or shared piece of paper is acceptable during the meeting; however, you may not take any written (electronic or otherwise) record away from the meeting.
- After the meeting, do something else for at least a half-hour (Facebook, or doing an assignment for a different class), before working on the assignment.
 - This will assure that you are able to reconstruct what you learned from the meeting, by yourself, using your own brain.
 - You will be asked to certify that you meet this requirement per assignment.

Python 🛑





- We'll be using the Python programming language for our entire class homework assignments.
- You are expected to learn Python and use it for the assignments.
- Don't worry, Python is an easy language to transition to for most programmers and it is very useful for string manipulation (a key characteristic for IR).

NLTK





- We will also be using the Natural Language Tool Kit (NLTK) for helping us deal with some parts of the course.
- It's coded in Python (surprise!)
 - Yes, we know that this is a course on information retrieval and not natural language processing, but the two are forever intertwined.
- Please install both Python (2.7 or 3.6) and NLTK on your own personal computer.