

Course Logistics

3 major parts:

- 4 sessions: introduction from multiple aspects
- 9? " : IR fundamentals:
 - └ models
 - scoring functions
 - crawling, evaluation, etc.
- NLP required specifically for IR
- ML for IR
- : IE fundamentals
 - majority: NER
- : Information Access / Applications of IR
 - mining specifics: social media, sentiments,
 - computational advertising
 - sentiment analysis.

Tutorials: Thu/Tue evening

Grading:

Quizzes / In-class:	10%
Assignments (best 3/4)	15%
Project	60%
└ mini	20
└ major	40
Term Paper	15%
(Final Exam, can be done anytime)	

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Recommended Books

- Stanford IR book
- Search Engines in Practice

Project Details

MINI

- Individual
- 4 weeks, starting today
- Deliverables:
 - 1.
 - 2.

Long:

Py / C++ / Java

DEADLINES

1. 24th August: offline
2. 7th Sept: online + offline

Design and develop a scalable and efficient search engine on Wikipedia.

REQUIREMENTS

- Query ^{1.5} → result
- Support "Field Queries"¹¹
- Total index size: < 1/4th the size of the doc repository

- build your own indexing scheme

EVAL

- | | | |
|---------|---|---------------------|
| online | { | • Search time |
| | | • search efficiency |
| offline | { | • Indexing time |
| | | • Indexing size |

— MAJOR

- Team of 4 constrained choice
- 10 weeks.

Advanced topics

Scope well defined (by us)

• 5 touchpoints

Report to mentor every 2 weeks

• 3 Evaluations

first deliverable: scope doc
(26th Sept)

MVP deliverable: full system, V1
(25th Oct)

Complete System: Demo, presentation report
(14th Nov) code, etc.

Basic Overview

- Searching is important
- Computational advertising