

CS3245

Information Retrieval

13

Guest Lecture:
Retrieval-Augmented Generation,
and Wrap-Up



Live Q&A
<https://pollev.com/jin>



GUEST LECTURE ON RAG



EXAM MATTERS



General Information

- Date/Time: 4 May (Mon), 1-3pm
- Venue: SR1 (COM1-0206)
- Format
 - Pen-and-paper
 - Open book (only printed / written materials allowed)
 - Calculators (without pre-stored programs) allowed



Exam Scope

- All lectures, tutorials and course materials (including the corresponding sections in the textbook)
- For sample questions, refer to tutorials, and past year exam papers.
- If in doubt, ask on the forum

Types of Questions

- Q1 is true/false questions on various topics (12 marks). No justifications required.
- Q2 is short questions on various topics (44 marks). No need to show work for calculations.
- Q3-6 are long questions, topic-specific (44 marks in total). Need to show work / give justifications as required.



Help Session

- Date/Time: 30 Apr (Thu), 12-2pm.
- Via Canvas Zoom
 - Recorded on a best effort basis.
- Agenda
 - Exam Paper 24/25 AY Semester 2
 - Q&A



**WHERE TO GO
FROM HERE**



Learning Objectives

- You have learnt how to build your own search engine!
- In addition, you have picked up skills that are useful for your future
 - **Python** – one of the easiest and more straightforward programming languages to use.
 - **NLTK** – A good set of routines and data that are useful in dealing with NLP and IR.



Computational Advertising

Geographic IR

Adversarial IR

Distributed IR

Social Network IR

IR Theory

Query Analysis

Digital Libraries

Recommendation Systems

Question Answering with RAG

Natural Language Processing

Prob IR

VSM

Boolean IR

Photo credits:
<http://www.flickr.com/photos/aperezdc/>



Keep Searching

Searches

- 1 Gemini
- 2 India vs England
- 3 Charlie Kirk
- 4 Club World Cup
- 5 India vs Australia

Catch Me Up in AI Mode

News

- 1 Charlie Kirk assassination
- 2 Iran
- 3 US Government Shutdown
- 4 New Pope chosen
- 5 LA Fires

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People

- 1 d4vd
- 2 Kendrick Lamar
- 3 Jimmy Kimmel
- 4 Tyler Robinson
- 5 Pope Leo XIV

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Movies

- 1 Anora
- 2 Superman
- 3 Minecraft Movie
- 4 Thunderbolts*
- 5 Sinners

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Games

- 1 Arc Raiders
- 2 Battlefield 6
- 3 Strands
- 4 Split Fiction
- 5 Clair Obscur: Expedition 33

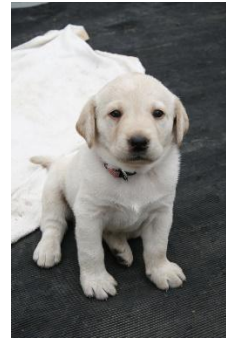
Catch Me Up in AI Mode

Sports events

- 1 FIFA Club World Cup
- 2 Asia Cup
- 3 ICC Champions Trophy
- 4 ICC Women's World Cup
- 5 Ryder Cup

Catch Me Up in AI Mode

<https://trends.withgoogle.com/year-in-search/2025/>



Thanks for joining us for the journey!

