# **CS598JH: Fall 2025 “Text Mining with LLMs”**

[**Course piazza link**](https://piazza.com/class/m05t4i0jkdg4g3/) Lecture session: CS598JH section: 70878 Credit: 4 hours Section Title: **Text Mining with LLMs**

###### [**Recommended research projects**](https://docs.google.com/document/d/1QAxaCvVMaB8pEEZWwoW1iB8Z4-LY1oHxlgdUYT2MP9M/edit#heading=h.4k5ym5xiqr94)[**Final Presentation Signup**](https://docs.google.com/document/d/1YttjvJQlme7IjdV2dscjVKOGg2NxqP6m/edit?usp=sharing&ouid=107753365993625299496&rtpof=true&sd=true)

**Instructor:** Jiawei Han ([Jiawei Han (illinois.edu)](http://hanj.cs.illinois.edu/))

* **Lectures**: 12:30 PM―01:45 PM WF 1035 CIF (Campus Instructional Facility)
* **Instructor Office Hours**:
	+ In person: 1:45-2:30pm (W/F@2132 SC)
	+ Online: 9-9:30pm CT Wed. at zoom link:

[https://illinois.zoom.us/j/2173336903?pwd=ckFxNnFWWW5kSXlqRDlIbndWOUViQT0](https://illinois.zoom.us/j/2173336903?pwd=ckFxNnFWWW5kSXlqRDlIbndWOUViQT09)9

**Teach Assistant** (using Piazza to seek help when needed): Ming Zhong

* **TA office hours** (starting on the 2nd week):
* In person: Tues. 12:30 PM - 1:00 PM (2111A SC)
* Online: Thurs. 8:00 PM - 8:30 PM on Zoom

<https://illinois.zoom.us/j/3412641949?pwd=SUxzS3huOVU2dTRDWTF3RTdqbm5UQT09>

## **Fall 2025: Lecture Slides and Course Schedule**

Lecture shared directory: [CS 598 JH-2025F-Text Mining LLM - Google Drive](https://drive.google.com/drive/folders/1ueJ261jA7M6mdCbmtl6-9EL8mr5V55dt?usp=sharing)

| **Week** | **Lec.** | **Date** | **Chapter/Topic** | **Slides** | **Notes (Student editing: Link to your course presentation slides + papers)** |
| --- | --- | --- | --- | --- | --- |
| 1 | 1 | 8/27 (Wed.) | Course Introduction & Theme Overview | 0-Class\_Overview.ppt |  |
| 1 | 2 | 8/29 (Fri.) | 1.Text Representation Learning & LLM | 1.Text Representation Learning & LLM |  |
| 2 | 3 | 9/3 (Wed.) | 1.Text Representation Learning & LLM |  | [Student presentation starts:](https://wiki.illinois.edu/wiki/display/CS598JHFA22/CS598JH%2BClass%2BPresentation%2BSchedule) 15 mins for two presentations |
|  | 4 | 9/5 (Fri.) | 1.Text Representation it Learning & LLM |  |  |
| 3 | 5 | 9/10 (Wed.) | 2.Implementation and Exploration of LLMs | 2.Implementation and Exploration of LLMs |  |
| 3 | 6 | 9/12 (Fri.) | 2.Implementation and Exploration of LLMs |  |  |
| 4 | 7 | 9/17 (Wed.) | 2.Implementation and Exploration of LLMs |   |    |
| 4 | 8 | 9/19 (Fri.) | 2.Implementation and Exploration of LLMs |  |   |
| 5 | 9 | 9/24 (Wed.) | 3. RAG + RAS  | 3. RAG + RAS  |   |
| 5 | 10 | 9/26 (Fri.) | 3. RAG + RAS  | [**Assignment distributed**](https://docs.google.com/document/d/1r5oWJh1OE36m_1N5ztIqThnaTRt5gr6EnZDZqYgeiz8/edit?usp=sharing) |  |
| 6 | 11 | 10/1 (Wed.) | 3. RAG + RAS |  |  |
| 6 | 12 | 10/3 (Fri.) | 4. Retrieval for RAG | 4. Retrieval for RAG |  |
| 7 | 13 | 10/8 (Wed.) | 4. Retrieval for RAG |  |  |
| 7 | 14 | 10/10 (Fri.) | 4. Retrieval for RAG | [**Research Proposals**](https://wiki.cites.illinois.edu/wiki/display/cs512/Research%2BProject%2BProposal) **due (end of Oct. 12th Sunday)** |  |
| 8 | 15 | 10/15 (Wed.) | 5. Structuring for LLM | 5. Structuring for LLM |  |
| 8 | 16 | 10/17 (Fri.) | 5. Structuring for LLM |  |  |
| 9 | 17 | 10/22 (Wed.) | 5. Structuring for LLM |  |  |
| 9 | 18 | 10/24 (Fri.) | 5. Structuring for LLM |  |  |
| 10 | 19 | 10/29 (Wed.) | 6. LLM Reasoning | 6. LLM Reasoning |  |
| 10 | 20 | 10/31 (Fri.) | 6. LLM Reasoning |   |  |
| 11 | 21 | 11/5 (Wed.) | 6. LLM Reasoning | [**Final Presentation Signup**](https://docs.google.com/document/d/1YttjvJQlme7IjdV2dscjVKOGg2NxqP6m/edit?usp=sharing&ouid=107753365993625299496&rtpof=true&sd=true) |  |
| 11 | 22 | 11/7 (Fri.) | 7. LLM Applications | **Assignment due (due at the end of the day: 11:59pm Friday)**  |  |
| 12 | 23 | 11/12 (Wed.) | 7. LLM Applications |  |  |
| 12 | 24 | 11/14 (Fri.) | 7. LLM Applications |   |  |
| 13 | 25 | 11/19(Wed.) | 7. LLM Applications |   |  |
| 13 | 26 | 11/21 (Fri.) | **Midterm Exam** | [**A Sample of a past Midterm Exam**](http://hanj.cs.illinois.edu/cs598jh/exams/CS598-2022-Midterm.pdf) |  |
| 14 |  | 11/26-28 | Thanksgiving Break (No Class) |  |  |
| 15 | R1 | 12/3 (Wed.) | Research project presentations |   | [**Final Presentation Signup**](https://docs.google.com/document/d/1YttjvJQlme7IjdV2dscjVKOGg2NxqP6m/edit?usp=sharing&ouid=107753365993625299496&rtpof=true&sd=true) |
| 15 | R2 | 12/5 (Fri.) | Research project presentations |  | [**Final Presentation Signup**](https://docs.google.com/document/d/1YttjvJQlme7IjdV2dscjVKOGg2NxqP6m/edit?usp=sharing&ouid=107753365993625299496&rtpof=true&sd=true) |
| 16 | R3 | 12/10(Wed.) | Research project presentations |  | [**Final Presentation Signup**](https://docs.google.com/document/d/1YttjvJQlme7IjdV2dscjVKOGg2NxqP6m/edit?usp=sharing&ouid=107753365993625299496&rtpof=true&sd=true) |
| 16 | R4 | 12/12 (Fri.) |  (Campus Reading Day 12/11) | **Final Research Project Report due Fri. (12/12)** | [Peer-review Form](https://forms.gle/GZJPxsz5k26NYdLs9) |