

Team KAF4 Members: Captain Kristen Fisher [kaf4]

Topic: Intelligent Learning Platform: ConceptView

Goal: Extract taught concepts from lectures to build a concept summary for each lecture.

If concepts from lecture materials can be extracted intelligently, users can efficiently retrieve lectures containing relevant information based on such concept summaries.

For this project, text data will come from CS410 lecture materials. Concept summaries built from the text data will be generated using techniques from the course including, but not limited to, text mining analysis with MeTA and topic modeling (PSLA/LDA). I anticipate all of code for this project will be written in Python, and the [ConceptView data](#) provided in the CS410 Project Topics document will be used for the evaluation of generated concept summaries.

Working alone, I plan to spend at least 20 hours on this project:

- 3 HR: extracting and organizing text data from lectures into usable datasets
- 2 HR: researching additional techniques, tools, algorithms, etc.
- 10+ HR: extracting terms, topic modeling, compiling results to generate summaries
- 5+ HR: troubleshooting, debugging, tuning, testing, documentation, etc.