

CS 410 Project Proposal

My name is Erik Larsen, my NetID is erikl2 and I am the team captain for team Wolf.

My free topic will be to create a book review summarizer and recommender system. I love books and I am always interested in finding good new books to read on various topics.

I plan to use various APIs to access book and book review information, such as Google Books, GoodReads, and perhaps others such as Amazon and LitHub. I will initially develop a command line interface and then attempt to create a web frontend as well. I may utilize Huggingface's Transformers library to achieve the review summarization. I will evaluate my work by comparing review summaries to complete reviews for certain books, and comparing the recommender system to existing systems such as Amazon and GoodReads.

I plan to use Python for the backend and Flask, and possibly JavaScript libraries such as React for the frontend.

I estimate the following task workloads:

- Testing API functionality for this purpose: 3+ hours
- Writing backend code to summarize and recommend books: 15+ hours
- Writing frontend code to provide a user interface: 10+ hours