Capstone 2: Project Proposal

Problem Identification

Problem Statement- Frustration is being caused by the current recommendation set up. Plan to create a new algorithm for a better user experience by the end of quarter two. We will be able to see a larger variety in recommended books as well as more following the suggestions. This would show with the purchase choices on the Kindle.

Context- Review currently used algorithms to compare what is successful. Update and modify a new algorithm based on ratings and book themes.

Criteria for Success- To have a new more refined book recommendation system based on user ratings and book themes.

Scope of Solution Space- Clear recommendation criteria to better meet user needs.

Constraints- Differences in what people want or reading based on need instead of want. There is a limit to how many books are stored in the database currently.

Stakeholders- Goodreads company, Kindle

Data Sources- Kaggle datasets from Goodreads

I will be working to create a new book recommendation system for Goodreads to utilize. There is frustration with the current recommendations not meeting expectations from users. So looking at a few different features we hope to be more specific in the recommendation. There should be a drive to have a complete database of all books that are published to allow for a wider range of material to pick from. I will be using a dataset from Kaggle.

https://www.kaggle.com/datasets/mdhamani/goodreads-books-100k

I will work through the data to be able to identify the multiple themes per book then look at the average review. Looking to model a good correlation between the themes and ratings to allow a different look at what we suggest. We will deliver a new algorithm to recommend new reading material. This will be part of a slide deck, and a project report.