Project Proposal: Book Recommender Application – Story Ever After

**Overview:**

Create a book recommender system where the user can enter a book title and the application will return a specified number of recommendations(Top 10) by book title.

Recommender System is an information filtering system that seeks to predict the "rating" or "preference" a user would give to an item. This project will focus on collaborative filtering and use item-based collaborative filtering systems make book recommendations.

Collaborative filtering based systems use the actions of users to recommend other items. Item based collaborative filtering uses the patterns of users who browsed the same item as me to recommend me a product (users who looked at my item also looked at these other items). Item-based approach is usually preferred than user-based approach. User-based approach is often harder to scale because of the dynamic nature of users, whereas items usually don't typically change much.

**Data Sets:**

<http://www2.informatik.uni-freiburg.de/~cziegler/BX/>

CSV: BX-Books , BX-Book-Ratings

<https://www.kaggle.com/meetnaren/goodreads-best-books>

CSV: book-data

<https://www.kaggle.com/jealousleopard/goodreadsbooks>

CSV: books

<https://www.goodreads.com/api>

<https://github.com/mdzhang/goodreads-api-client-python>

API Wrapper

**Data Mining and Data Munging:**

**Analysis:**

KNN

<https://github.com/KevinLiao159/MyDataSciencePortfolio/blob/master/movie_recommender/movie_recommendation_using_KNN.ipynb>