

CSE-5334-002: Data Mining

Project Proposal: A Book Recommendation App.

For the Main Project in Data Mining, I have chosen a Book Recommendation App. Book Recommendation app is basically a system which will recommend the users similar books based on the title of the book the user inputs. When we read title of this proposal the first question that arises is Why Book Recommendation? “A reader lives a thousand lives before he dies . . . The man who never reads lives only once.”, this famous quote by the world-renowned author George R.R. Martin is the inspiration behind my idea of creating a book recommendation app. Books are a source of immense knowledge and with immense knowledge comes immense power. Power to think, make rational choices and lead a better life.

When we talk about books, there are a million of books that have been published and there is one being published every minute in the world. To make a choice amongst these millions of books and find the book I want to read is a big task! So, in order to help users, solve a big question, “What should I read next” I have thought of creating this app. This app will let users find a book based on their interest. For example, if a user has just finished reading ‘Pride and Prejudice’ and absolutely loved it, then this app will find a book for the user that is similar to ‘Pride and Prejudice’ which could be ‘Sense and Sensibility’.

With the help of various powerful Machine Learning algorithms, we can build a system which can browse through millions of books over the internet and recommend books to the users. Algorithms that use Cosine similarity or Nearest Neighbor or Clustering algorithms can be very useful for building the recommendation system.

The presence of an app such as ours would make the lives of people very easy. The users would then be able to find a perfect read for them and would not be burdened with the trouble of browsing through Barnes and Nobles aimlessly hopping from genre to genre. Also, this system will allow users to keep up with the current digital age where everything is done online and save their time.

The data set used for this idea was found on Kaggle. The following is the link to the dataset.

<https://www.kaggle.com/zygmunt/goodbooks-10k>

We also found a few similar applications that provide book recommendations to users. They are as follow:

1. GoodReads
2. Bookmojis
3. Litsy