
Project Fletcher

Build a Recommendation System for Books

Anjali - November 5, 2018

Goals

- Develop a recommender for books by using Natural Language Processing along with Unsupervised Learning.
- Create features using Natural Language Processing from the text available in Books
- Generate a meaningful summary for a book
- Use the generated features to cluster books using unsupervised learning algorithms
- Create a recommender system where a person provides a book that they liked and the system returns books that fall into the same cluster.
- For the recommender part may have to use the clusters (labels) provided by the unsupervised learning in a supervised learning model to classify books provided by the user.

Data

Dataset either from project [gutenberg.org](http://www.gutenberg.org) , Google Books on AWS.

Data Features

Generate using NLP

If possible use features like mood, age, gender to improve the recommendation system.

Tools

Use Pandas, Numpy, sklearn supervised and unsupervised, NLTK

Will try to make a flask, JS API for the recommender

Use at least one of the following for visualization - D3, Tableau, flask

Use Mongo or some NoSQL database for data storing and handling