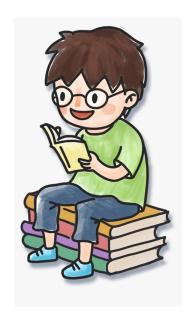
Book Recommendation

Group 6

User Story



Gram is an 85 year-old women living alone in a retirement home. She is a voracious reader but is sick of reading the same thing. She does not understand technology nor has any desire to learn.



George is a 20 year-old college student. He is looking for escapists fiction but that is not a genre label so he has hard time finding them. He has no friends and depends on reddit to streamline this search.

AWS Dashboard





AWS Dashboard

Front-End

- Purely HTML, CSS design
- A small portion of Javascript

Back-End

- Flask, Python.
- Import the model functions from model.py files
- Run them on app.py, which is the main control panel we use for the whole operation of the website.
- Use GET, POST methods to obtain the queries from front-end and send them to the models for further processing.

AWS Dashboard

Login

SignUp



Group 6

Discover Your Favorite books

Overview

Datasets

Explore

Find Book

About Us

Database

The world is one big data problem! Take a look at our immersive databases and how we process data to provide you the best book to read next.

Read more →



In this section, we provide static and dynamic graphs to help you to find your own insights. You will know what's the trending books, genre, authors right now. Come in and explore!

Read more →



Find a Book

Still want to hear our suggestions?
We have developed advanced
machine learning models to
generate personalized
book recommendations
only for you.

Read more →



About Us

Who are we?
Want to know more about our team
or have other questions?
Github Link →

Read more →

Data Visualization



Group 6

Discover Your Favorite books

Click to the Dataset

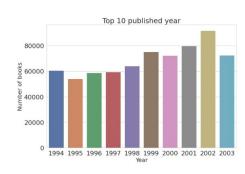
Overview
Datasets
Explore
Find Book
About Us

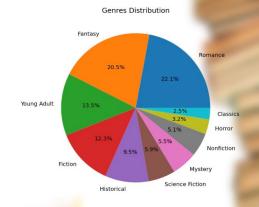
Books: 126674

Unique Genres: 5773

Authors: 58900

Different Countries: 164





Explore More - Fantasy Category



Group 6

Discover Your Favorite books

Fantasy

Romance

Young Adult

Overview **Datasets Explore**

Find Book About Us

W S S RED OUEEN Title: Red Queen Author: Victoria Aveyard Avg Rating: 9.5/10



Title: The Phantom Tollbooth Author: Norton Juster Avg Rating: 8.8/10



Title: The Lies of Locke Lamora Author: Scott Lynch Avg Rating: 9.4/10



Title: Gardens of the Moon Author: Steven Erikson Avg Rating: 8.9/10



Title: Nanny McPhee and the Big Bang Author: Emma Thompson Avg Rating: 8.1/10



Login

Explore More - Romance Category



Group 6

Discover Your Favorite books

Fantasy

Romance

Young Adult

Overview Datasets **Explore**

Find Book

About Us

Title: Fifty Shades of Grey Author: E. L. James Avg Rating: 8/10



Title: Taking Chances Author: Molly McAdams Avg Rating: 8.4/10



Title: Gabriel's Inferno Author: Sylvain Reynard Avg Rating: 8.8/10



Title: Bared to You Author: Sylvia Day Avg Rating: 8.8/10

Click to Purchase



Title: Easy Author: Tammara Webber Avg Rating: 9.0/10



Explore More - Young Adult Category



Group 6

Discover Your Favorite books

Fantasy

Romance

Young Adult

Overview

Datasets

Explore

Find Book

About Us

(3)

Title: Allegiant Author: Veronica Roth Avg Rating: 8.2/10

Click to Purchase



Title: Aristotle and Dante Discover the Secrets of the Universe Author: Benjamin Alire Sáenz Avg Rating: 9.4/10

Click to Purchase



Title: The Sisterhood of the Traveling Pants Author: Ann Brashares Avg Rating: 9.4/10

Click to Purchas



Title: Among the Hidden Author: Margaret Peterson Haddix Avg Rating: 9.4/10

Click to Purchas



Title: The Boundless Author: Kenneth Oppel Avg Rating: 9.0/10

Click to Purchase

Login

Book Recommendation System

- Item-based Collaborative Filtering
 - User Rating, Book Titles
- Content-Based Collaborative Filtering
 - o Title, Author, Publisher and Genre
- Cosine Similarity
 - Feature Vector Distance
- Mixed Model

Dashboard Demo



Overview

Datasets

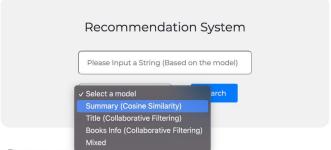
Explore Find Book

i ilia book

About Us

Group 6

Discover Your Favorite books



How to use our Recommendation System?

As simple as it may seem, put the title of the book and get recommendation!

!Warning:

BEAWARE of book series such as Harry Potter, you have to input the complete book name, e.g. Harry Potter and the Chamber of Secrets (Book 2), Emma (Signet Classics (Paperback))

If there is a typo or mismatch in the book title, the system is unable to generate any recommendation.

Select a model:

We have prepared multiple models so you can choose the one that fits your needs. For example, if you want to be recommended with similar content of the book title you put in the first box, then select Title.

Login S

Our Team



Group 6

Discover Your Favorite books

ogin

Overview

Datasets

Explore

Find Book

About Us

Processing Team:

Fangning Cao, Ximei Wu Modeling Team:

Conghao Liu, Gordon Duncan, Jiayue Li AWS Team:

Joyce Huang, Zhenwei Liu

Roles and Responsibilities:

Processing Team:

Good recommendations relie on a strong Database! Our processing team is the foundation of our product.

They are responsible for collecting the data from multiple sources, cleaning the raw data and extracting key information.

Modeling Team:

Then the baton is passed to the modeling team, which trains and utilize advanced machine learning model. The model is smart enough to learn your preferences and generate your next favorite book.

AWS Team:

Last but not least, the AWS created everything you see on our website. The layout, buttons and functionalities are all created by them. We hook our dashboard on an online server, so our service is always within reach!

Future Work

- Login Profile
- More personalized recommendations