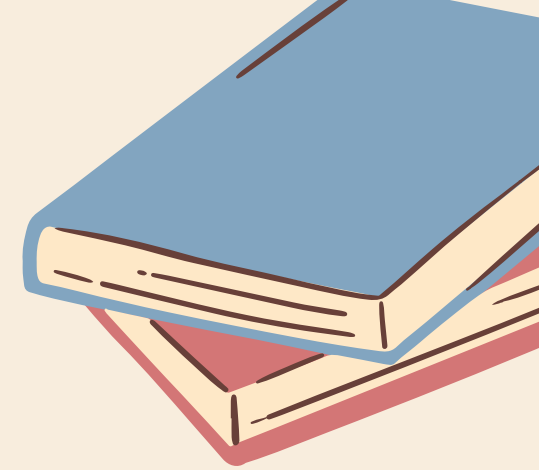


GOODREADS BOOK RECOMMENDATION ENGINE

Setara Nusratty Stats 418



PROJECT OVERVIEW



DATA

2000 rows
From:
Best Books Ever
List Goodreads

Key fields:
Title, Author,
Genres, Rating,
Pages, Year, Url

PRODUCTION

**Recommending
Books:**
via K-NN

Producing:
Python Shiny +
Cloud Run

DATA COLLECTION

Webscraped:
Using Selenium



The Hunger Games #1

The Hunger Games

Suzanne Collins

★★★★☆ 4.34 9,483,651 ratings · 245,893 reviews

Winning means fame and fortune. Losing means certain death. The Hunger Games have begun. . .

In the ruins of a place once known as North America lies the nation of Panem, a shining Capitol surrounded by twelve outlying districts. The Capitol is harsh and cruel and keeps the districts in line by forcing them all to send one boy and one girl between the ages of twelve and eighteen to participate in the annual Hunger Games, a fight to the death on live TV.

Sixteen-year-old Katniss Everdeen regards it as a death sentence when she steps forward to take her sister's place in the Games. But Katniss has been close to dead before-and survival, for her, is second nature. Without really meaning to, she becomes a contender. But if she is to win, she will have to start making choices that weigh survival against humanity and life against love.

Genres [Young Adult](#) [Dystopia](#) [Fiction](#) [Fantasy](#) [Science Fiction](#) [Romance](#) [Adventure](#) [...more](#)

374 pages, Hardcover

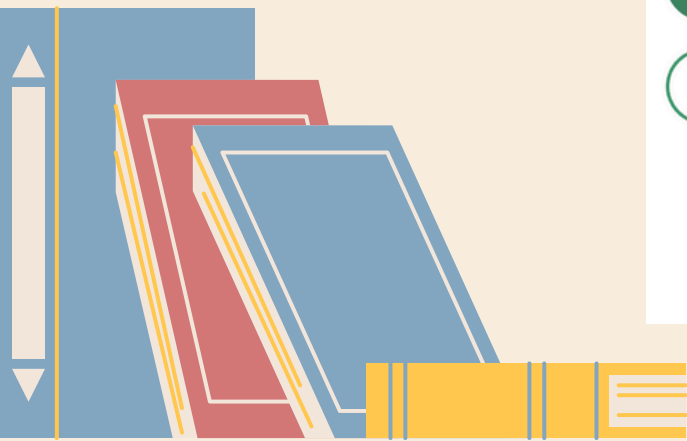
First published September 14, 2008

Want to Read

Shop this series



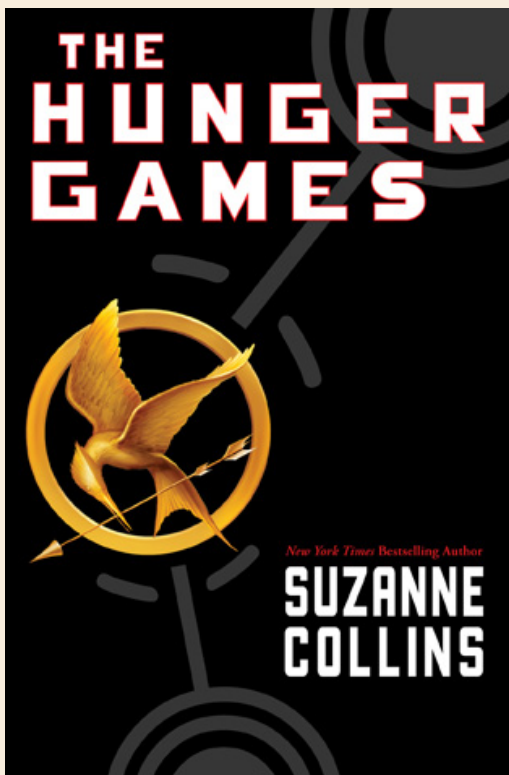
Rate this book



RECOMMENDER

CONTENT BASED K-NN MODEL

INPUT



COLUMN TRANSFORMER

Feature Vectorization:

- Genres → TF-IDF
- Author → TF-IDF

Numerical Features:

- log rating_count
- log num_pages
- log pub_age
- avg_rating

K-NN

COSINE K-NN (k=10):

- Find k nearest books

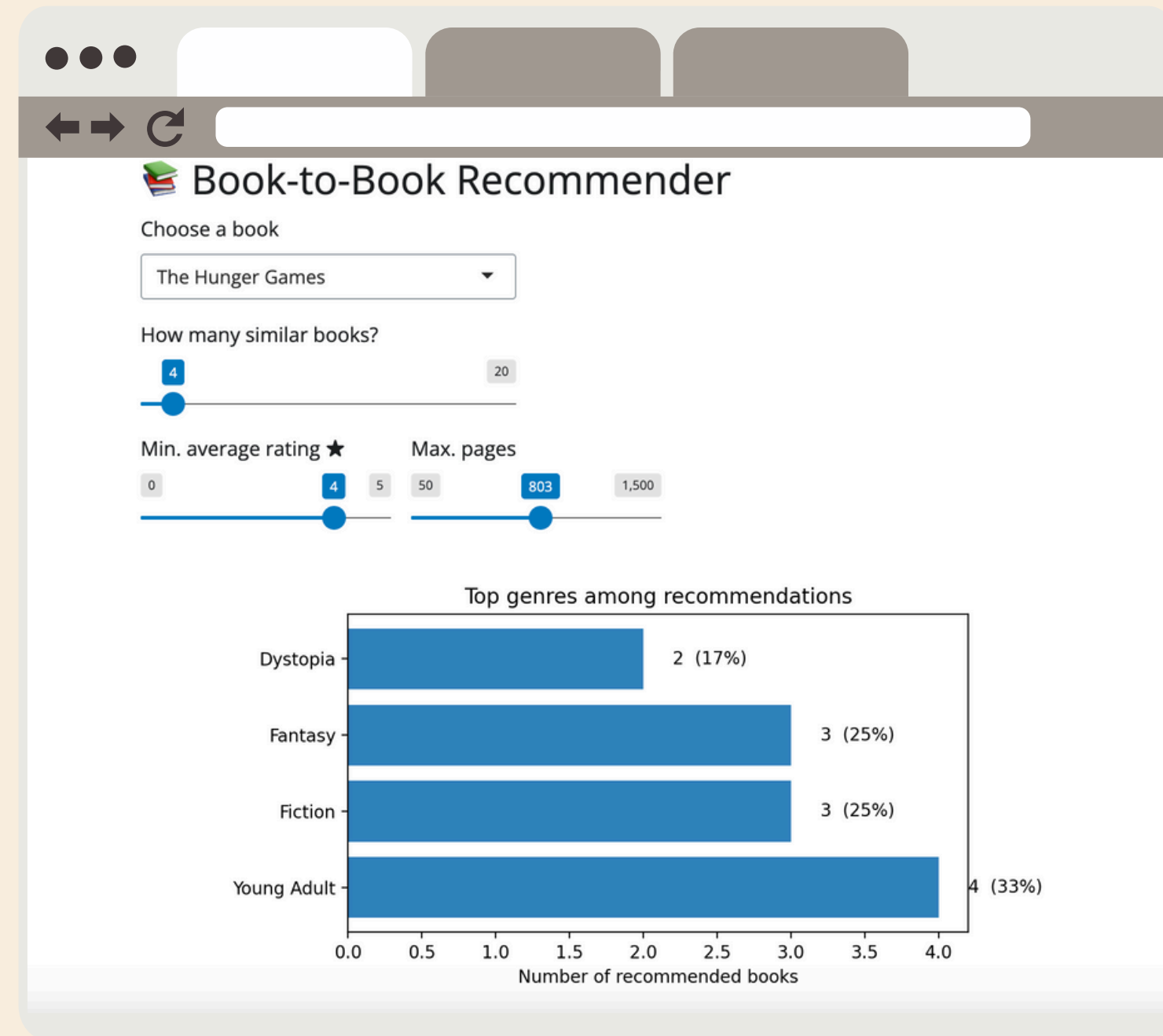
OUTPUT

Title	Author	Avg Rating
Harry Potter and the Chamber of Secrets	J.K. Rowling	4.43
Harry Potter and the Prisoner of Azkaban	J.K. Rowling	4.58
Harry Potter and the Half-Blood Prince	J.K. Rowling	4.57

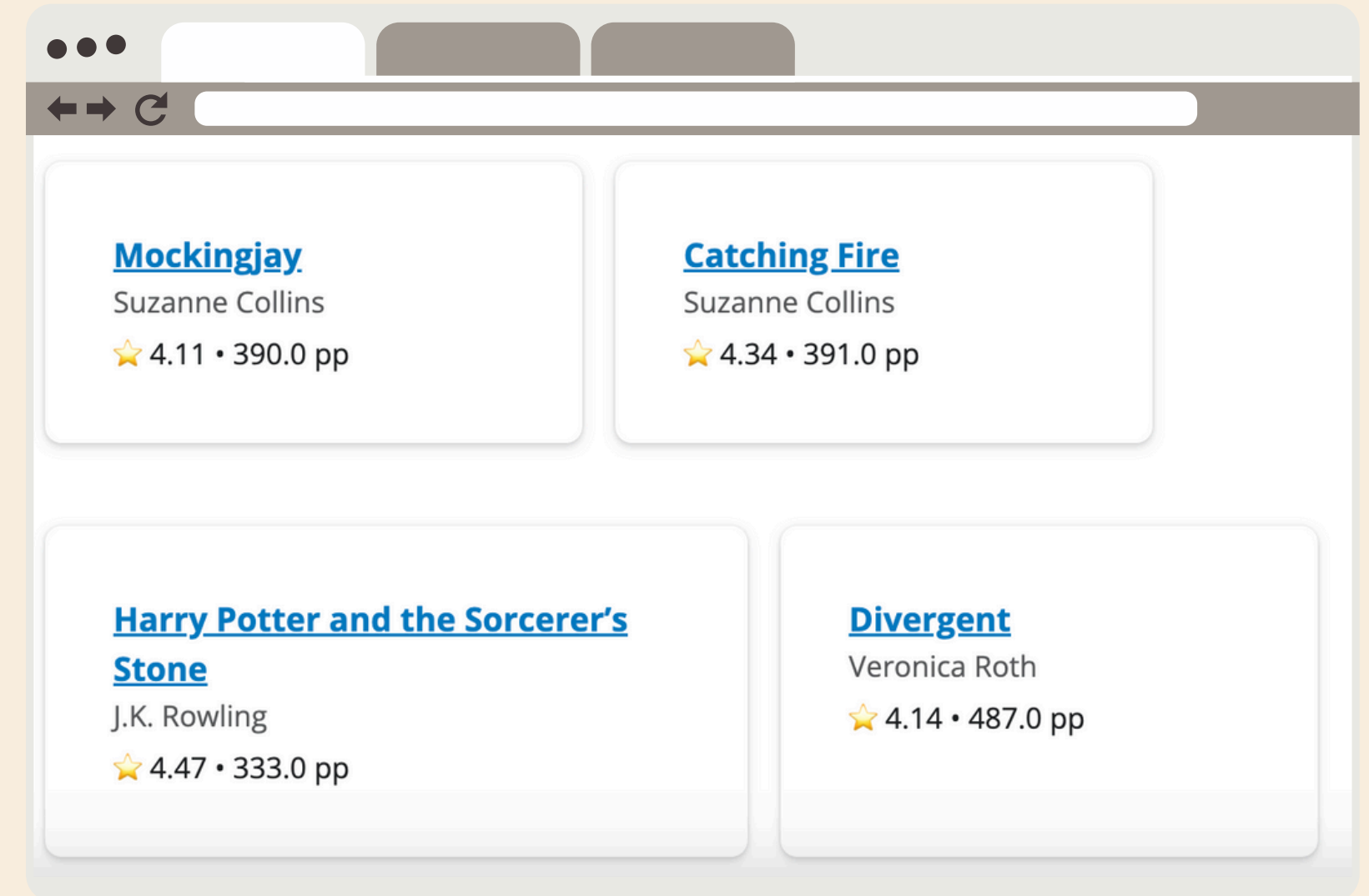
*Pipeline built with scikit-learn

similarity \geq 0.80

LIVE SHINY APP



Scan To Try!



Feature and Deployment Call-Outs:

- 🔍 Title Search & Auto Complete
- ✓ Filters ★ rating / max pages
- 📊 Genre bar chart
- 🖱️ Clickable rec cards (link to Goodreads)

Hosted on Google Cloud Run ☁️

🐳 Docker container (linux/amd64 build)