A Medium publication sharing concepts, ideas and codes.

Content Based Filtering

In Towards Data Science. More on Medium.

Xue Wang · Mar 26 ★

Two examples of a content-based recommendation system

Content-based, weighted content-based, Numpy functions

Photo from Michal Matlon on Unsplash

and some efficient array functions I learn from them. The two examples are

1: Based on item content recommendation

2: Based on weighted content recommendation

I use a simple movie set as an example and would like to focus on the main process and ignore other processes and special cases. Let's get started.

Datasets preparing:

Use the below codes to generate two datasets: movie_df and review_df

```
movie_id=[1,2,3,4,5]
user_id=[100,100,200,300, 400]
movie_title=['toy story','superman','titannic','follow me','minari']
genres=['children,comedy','drama,children','drama,romantic','horror','drama']
rating=['3','2','3','2','2']
movies={'movie_id':movie_id,'movie_title':movie_title,'genres':genres}
reviews={'movie_id':movie_id,'user_id':user_id,'rating':rating}
movies_df= pd.DataFrame(movies,columns=['movie_id',  'movie_title','genres'])
reviews_df= pd.DataFrame(reviews,columns=['movie_id', 'user_id', 'rating'])
```

generate_dataset.py hosted with ❤️ by GitHub view raw

The two tables as:

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Tan Pengshi Alvin · Nov 16, 2020

A Content-Based Recommender for E-Commerce Web Store

A case study of a simple algorithm with Matrix Multiplication and Cosine Similarity

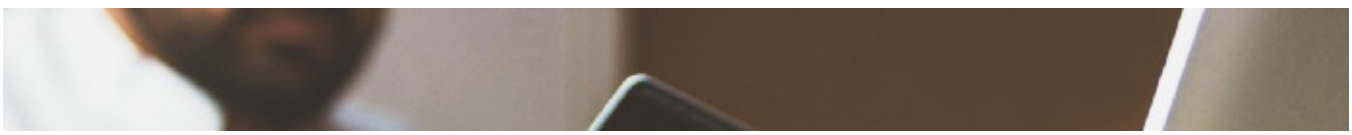

Photo by rupixen.com on Unsplash

Recommender systems have become ubiquitous in consumers' daily lives on the online platform, ranging from e-commerce, social media to news outlets. Our preferences and biases are super-charged by machine learning algorithms that learn from our taste, and recommend more of what we desire to see. Because recommender systems have such profound impact on our lives, and consequently on society, I decided to spend my last project of the Metis Data Science Bootcamp (Singapore, Batch 5) on creating a simple recommender algorithm for an e-commerce web store. …

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Jonathan Leban · May 11, 2020 ★

source: altkom software & consulting

DESCRIPTION AND A COMPARISON OF TWO RECOMMENDATION ENGINES

Essentials of recommendation engines: content-based and collaborative filtering

Have you ever wondered why the ads on Facebook are so relevant to what you're interested in or how the "movie-match" on Netflix works? Is it magic? No. In both cases, a recommendation engine or system makes predictions based on your historical behavior.

If you are a fan of science fiction movies and have watched Star Wars, the recommendation engine may suggest that you watch Avatar. This method is known as **content-based filtering** because it analyzes the content of each item and finds similar items. …

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Building and Deploying a Recommender with Flask and Heroku

A model-based perspective in the building of a hybrid recommender and the deployment of the content-based filtering component with Heroku

Front page of my Data Science Immersive Program's Capstone presentation slide deck

In this post, I illustrate one way of building a hybrid recommender and deploying a bare-bones, model-based content-filtering system with Flask and Heroku. This is the culmination of my capstone project from a Data Science Immersive program under General Assembly (GA) Singapore. More details can be found in these GitHub repo links: GA_Capstone, GA_Capstone_Flask_Heroku_deployment.

For this project, I have chosen coffee as the topic of interest, as I am surrounded by coffee-loving social cliques (even though I don't drink coffee!) and am well aware of the existence of practically endless choices when it comes to finding a good venue to…

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Wenbo Shi · Feb 23, 2020 ★

Biei, Hokkaidō, Japan by Wenbo Shi

Recommendation Systems: A Review

A summary of recommender system methods

*A **recommender system**, or a **recommendation system**, is a subclass of information filtering system that seeks to predict the "rating" or "preference" a user would give to an item. They are primarily used in commercial applications.*

Examples of such applications include recommending products on Amazon, music on Spotify, and of course, stories on Medium. The famous The Netflix Prize is also a competition in the context of recommendation systems.

More formally, the recommender problem can be interpreted as determining the mapping $(c, i) \rightarrow R$ where c denotes a user, i denotes an item, and R is the utility of…

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Ayang Laishram · Nov 18, 2019 ★

Novelty in Recommender System

This article talks a brief introduction of Recommender System.

Today we are living in a generation that we depend a lot on website based applications for any simple tasks, eg booking hotels, flight, movie tickets, watching movies (Netflix etc), shopping (Amazon, Flipkart, Myntra etc.), listening music (ganaa etc), advertisements, finding tourist places, finding restaurants based on location etc. When we do anything online, we can do the tasks efficiently without having to physical go there and research the task which takes more time. Our life becomes easier and more convenient when we do such tasks online. Also, there is…

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