

Movie Recommendation System

PRESENTATION

ENIGMA

HACKATHON

TYPES OF RECOMMENDATION SYSTEM

1

Content Based

Filtering Data based on similarity on Content

2

Collaborative Filtering Based

Filtering Data based on similarity among users

3

Hybrid

Filtering Data using the concept of both Content and Collaborative based

Importing Sklearnex from One Api

```
▶ [2]   from sklearnex import patch_sklearn
          ✓ 4.2s
          Python

patch_sklearn()
[3]   ✓ 0.1s
          Python

... Intel(R) Extension for Scikit-learn* enabled (https://github.com/intel/scikit-learn-intelex)
```

Datasets Used

THE MOVIE DATABASE (TMDB) · UPDATED 5 YEARS AGO

3288 New Notebook Download (9 MB) ⚙️ ⋮

TMDB 5000 Movie Dataset

Metadata on ~5,000 movies from TMDb

Data Card Code (1820) Discussion (60)

About Dataset

Background

What can we say about the success of a movie before it is released? Are there certain companies (Pixar?) that have found a consistent formula? Given that major films costing over \$100 million to produce can still flop, this question is more important than ever to the industry. Film aficionados might have different interests. Can we predict which films will be highly rated, whether or not they are a commercial success?

This is a great place to start digging in to those questions, with data on the plot, cast, crew, budget, and revenues of several thousand films.

Usability ⓘ
8.24

License
Other (specified in description)

Expected update frequency
Not specified



Data

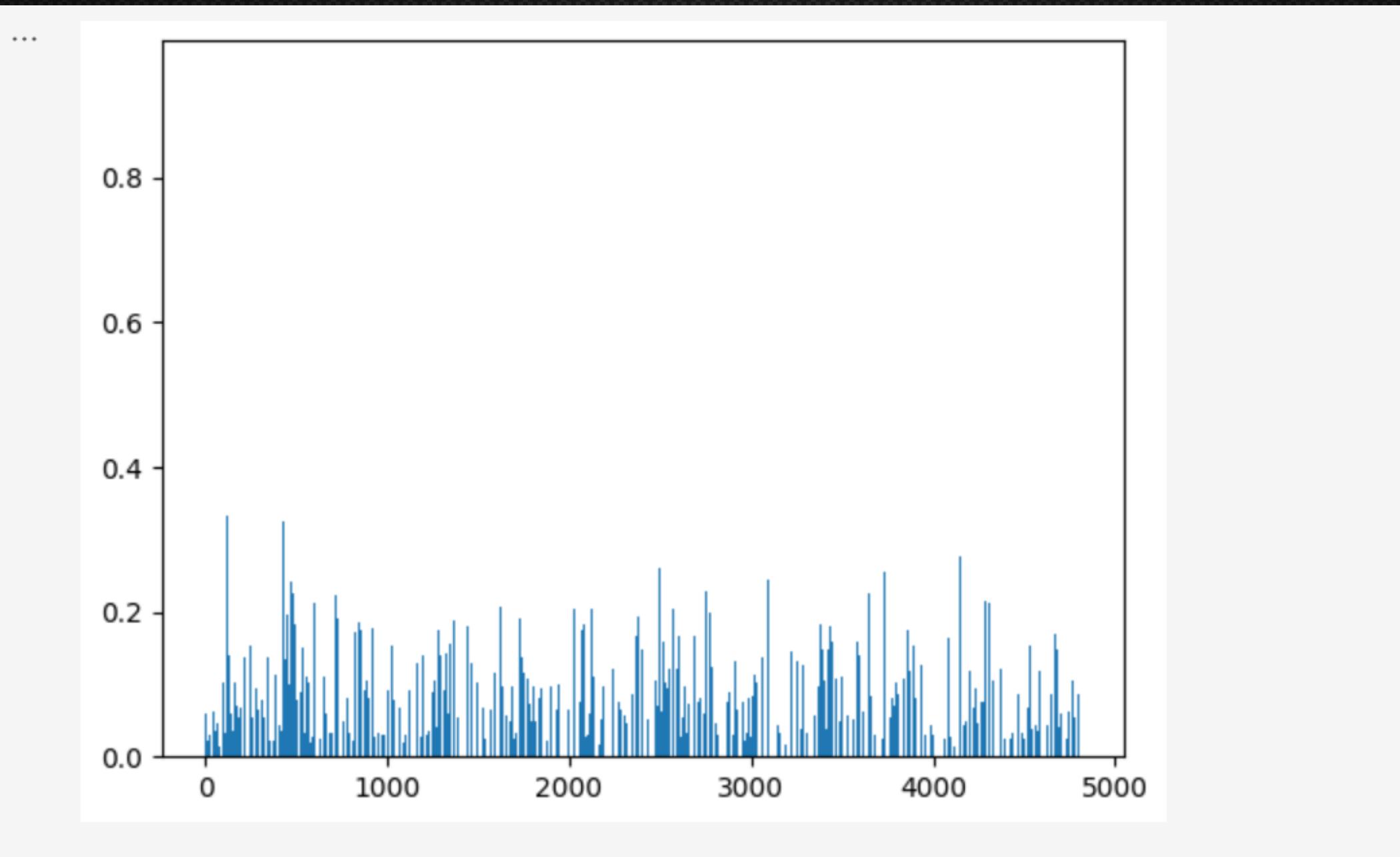
movie_id	title	overview	genres	keywords	cast	crew	
0	1995	Avatar	[In, the, 22nd, century,, a, paraplegic, Marin...]	[Action, Adventure, Fantasy, Science Fiction]	[culture clash, future, space war, space colon...]	[Sam Worthington, Zoe Saldana, Sigourney Weaver]	[James Cameron]
1	285	Pirates of the Caribbean: At World's End	[Captain, Barbossa,, long, believed, to, be, d...]	[Adventure, Fantasy, Action]	[ocean, drug abuse, exotic island, east india ...]	[Johnny Depp, Orlando Bloom, Keira Knightley]	[Gore Verbinski]
2	206647	Spectre	[A, cryptic, message, from, Bond's, past, send...]	[Action, Adventure, Crime]	[spy, based on novel, secret agent, sequel, mi...]	[Daniel Craig, Christoph Waltz, Léa Seydoux]	[Sam Mendes]
3	49026	The Dark Knight Rises	[Following, the, death, of, District, Attorney...]	[Action, Crime, Drama, Thriller]	[dc comics, crime fighter, terrorist, secret i...]	[Christian Bale, Michael Caine, Gary Oldman]	[Christopher Nolan]
4	49529	John Carter	[John, Carter, is, a, war-weary,, former, mili...]	[Action, Adventure, Science Fiction]	[based on novel, mars, medallion, space travel...]	[Taylor Kitsch, Lynn Collins, Samantha Morton]	[Andrew Stanton]

Combining All Data to form tags

movie_id		title	tags
0	19995	Avatar	In the 22nd century, a paraplegic Marine is di...
1	285	Pirates of the Caribbean: At World's End	Captain Barbosa, long believed to be dead, ha...
2	206647	Spectre	A cryptic message from Bond's past sends him o...
3	49026	The Dark Knight Rises	Following the death of District Attorney Harve...
4	49529	John Carter	John Carter is a war-weary, former military ca...

[+ Code](#) [+ Markdown](#)

Plotting to find the Nearest Distance among Vectors

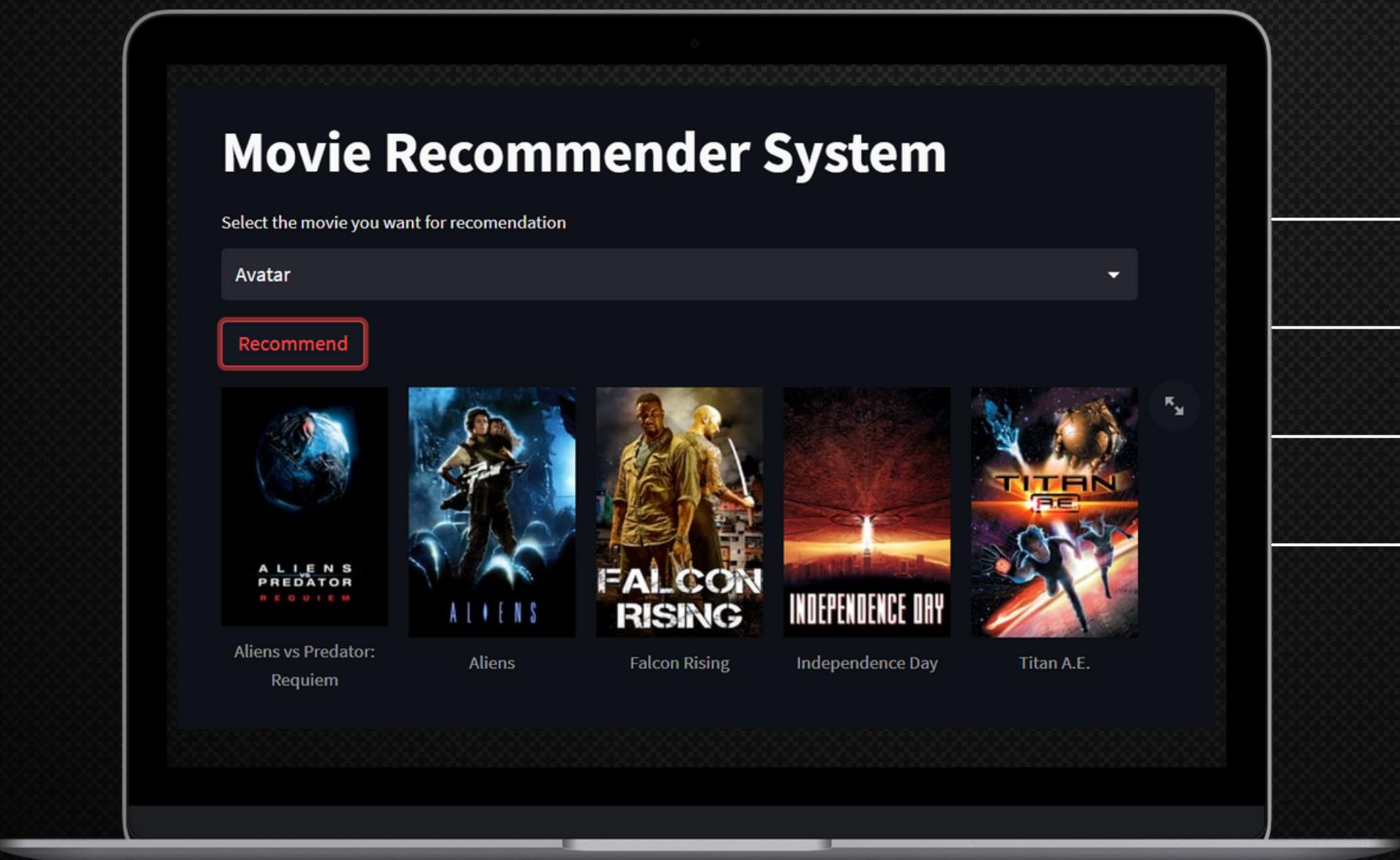


Finding Recommendations

```
recommend('Batman')  
✓ 0.0s
```

Batman
Batman & Robin
Batman Begins
Batman Returns
The R.M.

Movie Recommender



Select

Movie

Get

Recommendation

Thank You