app.py

```python
import pickle
import streamlit as st
import pandas as pd
import requests

def fetch_poster(movie_id):
    url = "https://api.themoviedb.org/3/movie/{}?api_key=668ede36989ea08a712d31b6d421650e&language=en-US".f
    data = requests.get(url)
    data = data.json()
    poster_path = data['poster_path']
    full_path = "https://image.tmdb.org/t/p/w500/" + poster_path
    return full_path

def recommend(movie):
    index = movies[movies['title'] == movie].index[0]
    distances = sorted(list(enumerate(similarity[index])), reverse=True, key=lambda x: x[1])
    recommended_movie_names = []
    recommended_movie_posters = []
    for i in distances[1:6]:
        # fetch the movie poster
        movie_id = movies.iloc[i[0]].movie_id
        recommended_movie_posters.append(fetch_poster(movie_id))
        recommended_movie_names.append(movies.iloc[i[0]].title)

    return recommended_movie_names,recommended_movie_posters
```

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notebook86c26b4f17.ipynb > # This Python 3 environment comes with many helpful analytics libraries installed

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```python
movies['cast'] = movies['cast'].apply(collapse)
movies['crew'] = movies['crew'].apply(collapse)
movies['genres'] = movies['genres'].apply(collapse)
movies['keywords'] = movies['keywords'].apply(collapse)
```

[44] Pyth

```python
movies.head()
```

[26] Pyth

	movie_id	title	overview	genres	keywords	cast	crew
0	19995	Avatar	In the 22nd century, a paraplegic Marine is di...	[Action, Adventure, Fantasy, ScienceFiction]	[cultureclash, future, spacewar, spacecolony, ...	[SamWorthington, ZoeSaldana, SigourneyWeaver]	[JamesCameron]
1	285	Pirates of the Caribbean: At World's End	Captain Barbossa, long believed to be dead, ha...	[Adventure, Fantasy, Action]	[ocean, drugabuse, exoticisland, eastindiatrad...	[JohnnyDepp, OrlandoBloom, KeiraKnightley]	[GoreVerbinski]
2	206647	Spectre	A cryptic message from Bond's past sends him o...	[Action, Adventure, Crime]	[spy, basedonnovel, secretagent, sequel, mi6, ...	[DanielCraig, ChristophWaltz, LéaSeydoux]	[SamMendes]
3	49026	The Dark Knight Rises	Following the death of District Attorney Harve...	[Action, Crime, Drama, Thriller]	[dccomics, crimefighter, terrorist, secretiden...	[ChristianBale, MichaelCaine, GaryOldman]	[ChristopherNolan]

Procfile

```
web: sh setup.sh && streamlit run app.py
```

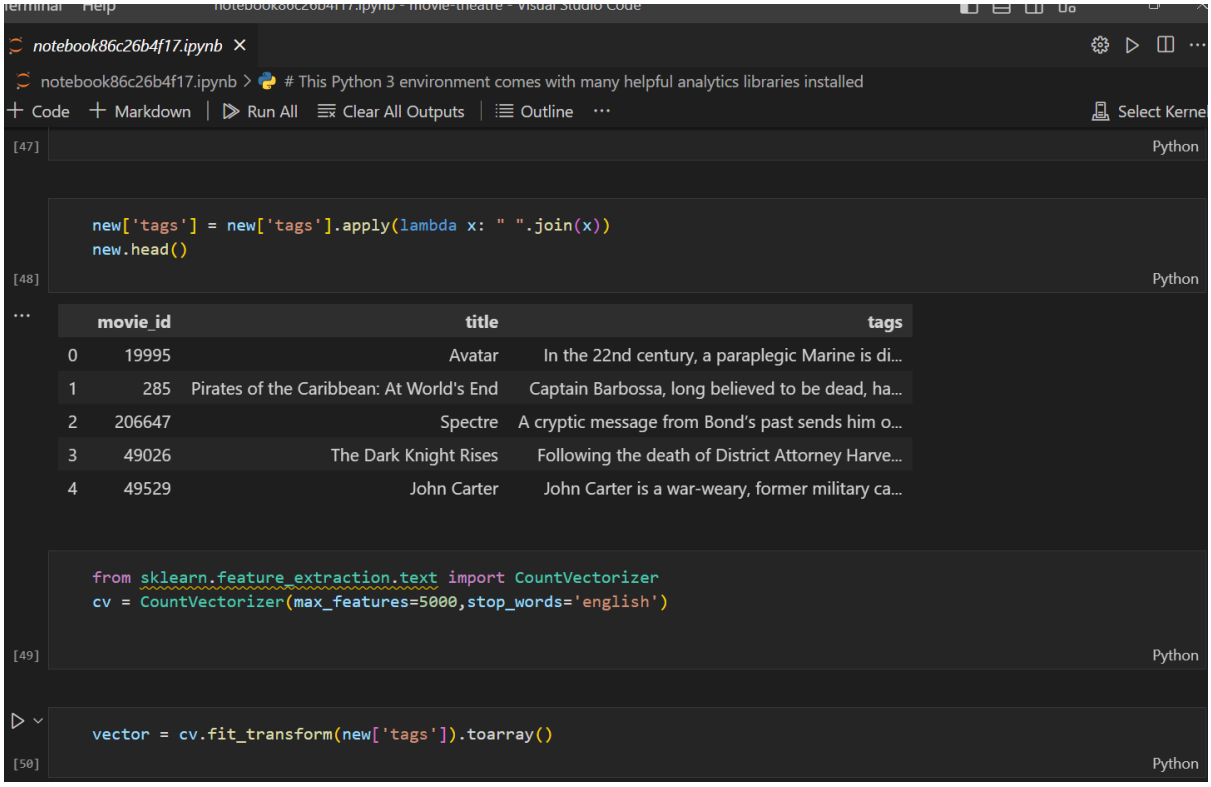
```
        recommended_movie_posters.append(fetch_poster(movie_id))
        recommended_movie_names.append(movies.iloc[i[0]].title)

    return recommended_movie_names,recommended_movie_posters

st.header("The MOVIE-THEATRE (Recommender System)")
movies_dict = pickle.load(open('movie_dict.pkl','rb'))
movies= pd.DataFrame(movies_dict)
similarity = pickle.load(open('similarity.pkl','rb'))

movie_list = movies['title'].values
selected_movie = st.selectbox(
    "Type or select a movie from the dropdown",
    movies['title'].values
)

if st.button('Show Recommendation'):
    recommended_movie_names,recommended_movie_posters = recommend(selected_movie)
    col1, col2, col3, col4, col5 = st.columns(5)
    with col1:
        st.text(recommended_movie_names[0])
        st.image(recommended_movie_posters[0])
    with col2:
        st.text(recommended_movie_names[1])
```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notebook86c26b4f17.ipynb > # This Python 3 environment comes with many helpful analytics libraries installed
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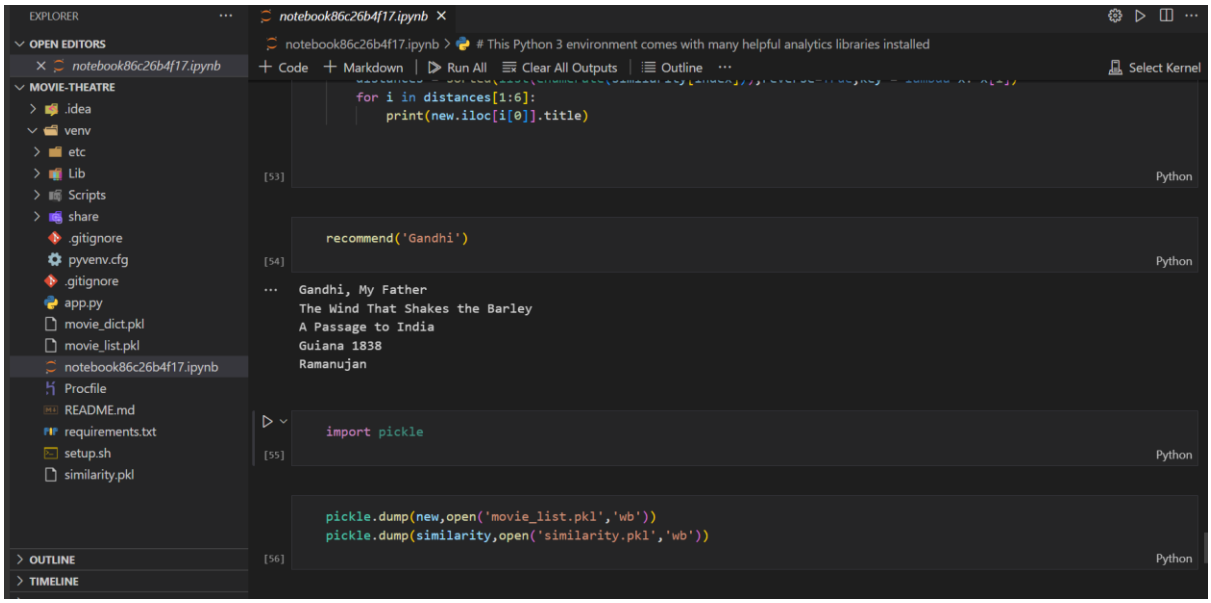
Select Kernel
[47]
Python
new['tags'] = new['tags'].apply(lambda x: " ".join(x))
new.head()
[48]
Python
movie_id title tags
0 19995 Avatar In the 22nd century, a paraplegic Marine is di...
1 285 Pirates of the Caribbean: At World's End Captain Barbossa, long believed to be dead, ha...
2 206647 Spectre 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...
from sklearn.feature_extraction.text import CountVectorizer
cv = CountVectorizer(max_features=5000,stop_words='english')
[49]
Python
vector = cv.fit_transform(new['tags']).toarray()
[50]
Python


EXPLORER
OPEN EDITORS
notebook86c26b4f17.ipynb
MOVIE-THEATRE
.idea
venv
etc
Lib
Scripts
share
.gitignore
pyvenv.cfg
.gitignore
app.py
movie_dict.pkl
movie_list.pkl
notebook86c26b4f17.ipynb
Procfile
README.md
requirements.txt
setup.sh
similarity.pkl
OUTLINE
TIMELINE
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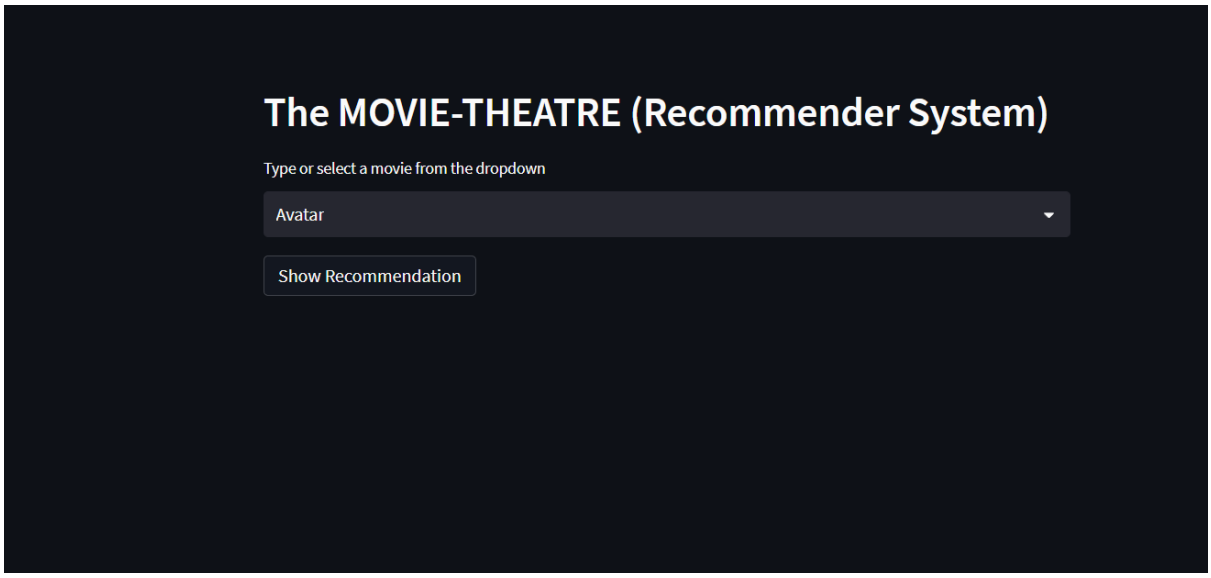
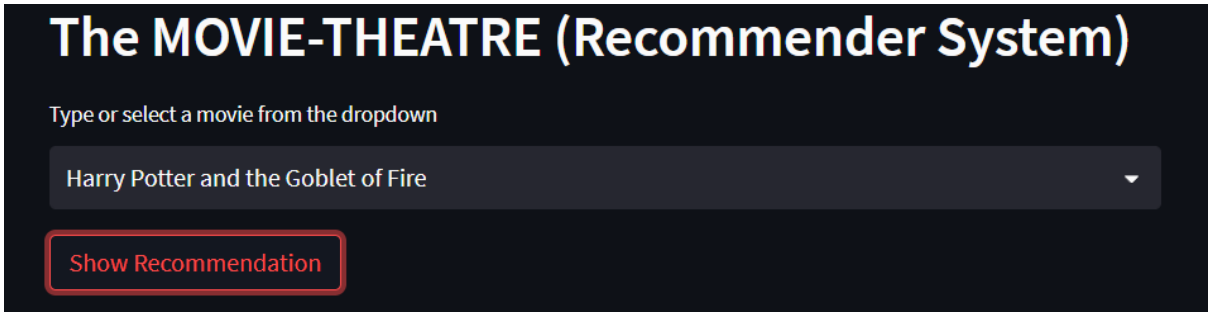
notebook86c26b4f17.ipynb > # This Python 3 environment comes with many helpful analytics libraries installed
+ Code + Markdown | Run All Clear All Outputs | Outline ···
Select Kernel
for i in distances[1:6]:
print(new.iloc[i[0]].title)
[53]
Python
recommend('Gandhi')
[54]
Python
Gandhi, My Father
The Wind That Shakes the Barley
A Passage to India
Guiana 1838
Ramanujan
import pickle
[55]
Python
pickle.dump(new,open('movie_list.pkl','wb'))
pickle.dump(similarity,open('similarity.pkl','wb'))
[56]
Python


The MOVIE-THEATRE (Recommender System)
Type or select a movie from the dropdown
Avatar
Show Recommendation


The MOVIE-THEATRE (Recommender System)
Type or select a movie from the dropdown
Harry Potter and the Goblet of Fire
Show Recommendation

The MOVIE-THEATRE (Recommender System)

Type or select a movie from the dropdown

Men in Black 3

Avatar

Pirates of the Caribbean: At World's End

Spectre

The Dark Knight Rises

John Carter

Spider-Man 3

Tangled

Avengers: Age of Ultron

The MOVIE-THEATRE (Recommender System)

Type or select a movie from the dropdown

Harry Potter and the Goblet of Fire

Show Recommendation

Harry Potter an Harry Potter an Harry Potter an Harry Potter an Harry Potter an