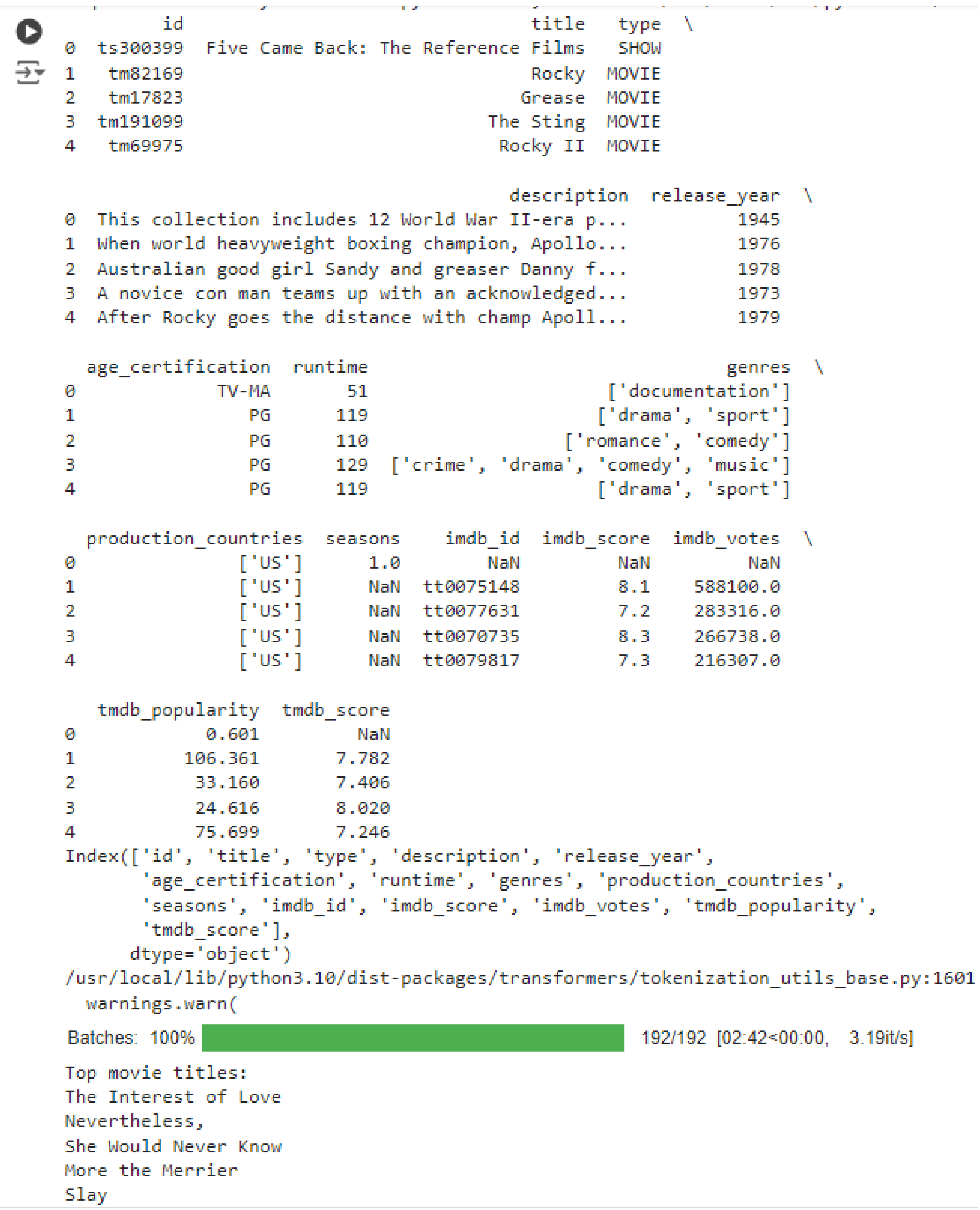
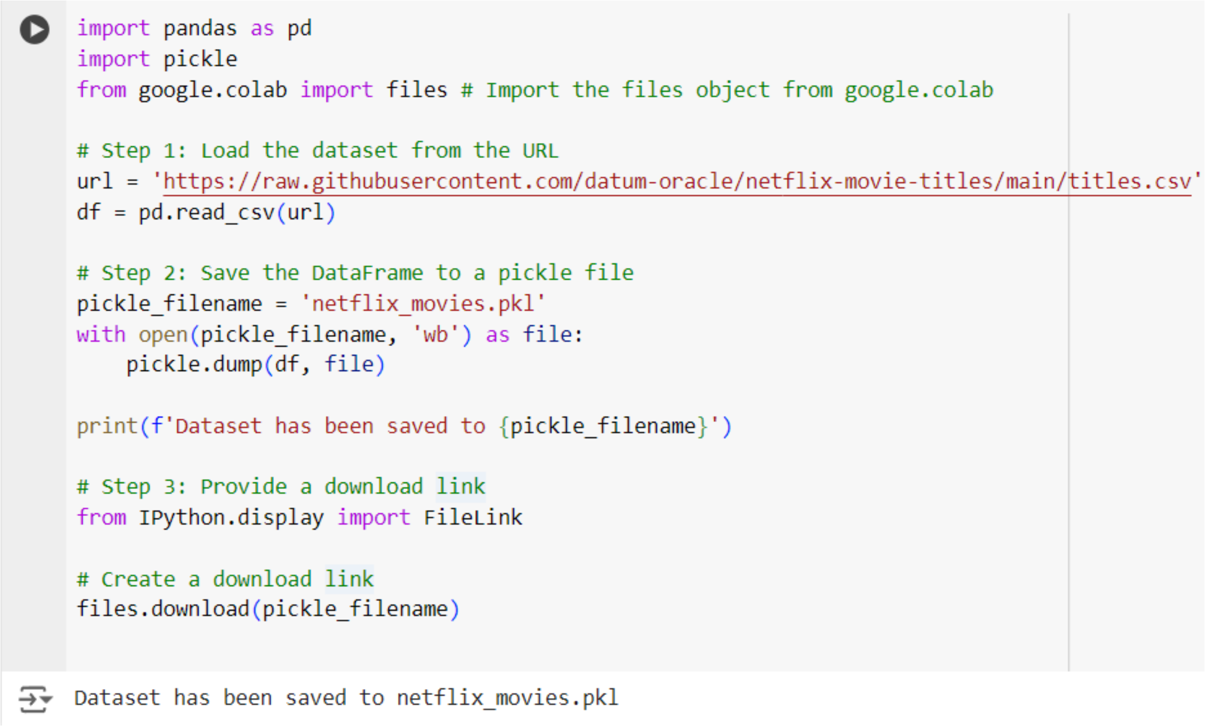
IMPLEMENTATION



```
         id                              title   type  \
0  ts300399  Five Came Back: The Reference Films   SHOW
1   tm82169                              Rocky  MOVIE
2   tm17823                             Grease  MOVIE
3  tm191099                          The Sting  MOVIE
4   tm69975                           Rocky II  MOVIE

                                         description  release_year  \
0  This collection includes 12 World War II-era p...          1945
1  When world heavyweight boxing champion, Apollo...          1976
2  Australian good girl Sandy and greaser Danny f...          1978
3  A novice con man teams up with an acknowledged...          1973
4  After Rocky goes the distance with champ Apoll...          1979

  age_certification  runtime                                 genres  \
0             TV-MA       51                      ['documentation']
1                PG      119                     ['drama', 'sport']
2                PG      110                  ['romance', 'comedy']
3                PG      129  ['crime', 'drama', 'comedy', 'music']
4                PG      119                     ['drama', 'sport']

  production_countries  seasons    imdb_id  imdb_score  imdb_votes  \
0               ['US']      1.0        NaN         NaN         NaN
1               ['US']      NaN  tt0075148         8.1    588100.0
2               ['US']      NaN  tt0077631         7.2    283316.0
3               ['US']      NaN  tt0070735         8.3    266738.0
4               ['US']      NaN  tt0079817         7.3    216307.0

   tmdb_popularity  tmdb_score
0            0.601         NaN
1          106.361       7.782
2           33.160       7.406
3           24.616       8.020
4           75.699       7.246
Index(['id', 'title', 'type', 'description', 'release_year',
       'age_certification', 'runtime', 'genres', 'production_countries',
       'seasons', 'imdb_id', 'imdb_score', 'imdb_votes', 'tmdb_popularity',
       'tmdb_score'],
      dtype='object')
/usr/local/lib/python3.10/dist-packages/transformers/tokenization_utils_base.py:1601
  warnings.warn(
Batches: 100%                                       192/192 [02:42<00:00,  3.19it/s]
Top movie titles:
The Interest of Love
Nevertheless,
She Would Never Know
More the Merrier
Slay
```

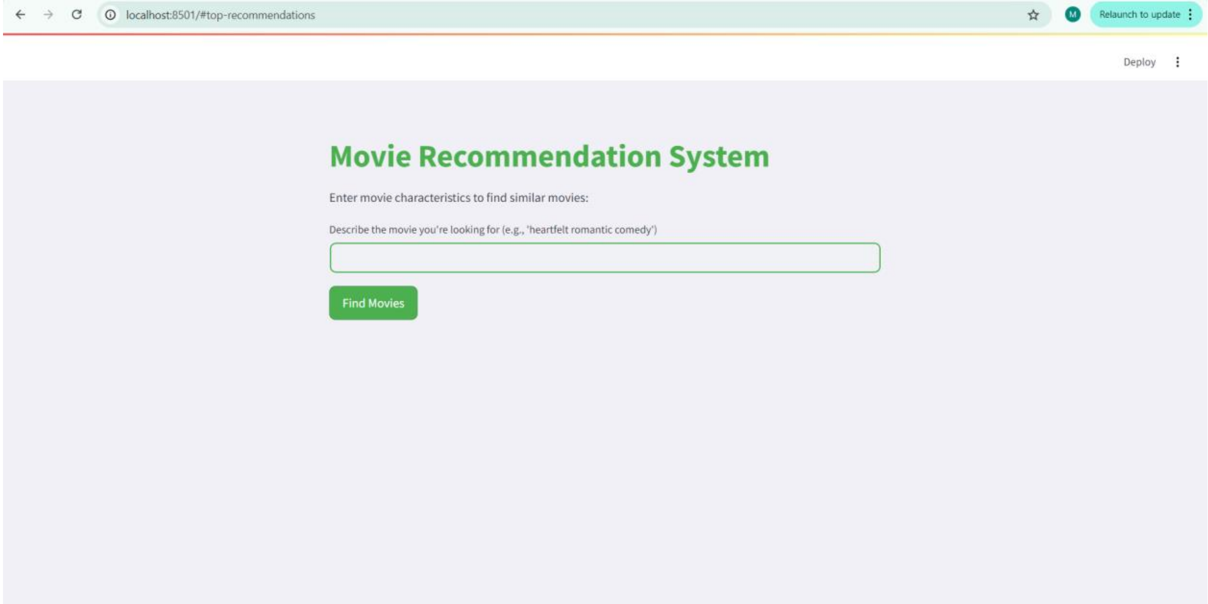
Fig 1.1 Output of the raw recommendation code without UI when given input genre = ‘romance’



```
import pandas as pd
import pickle
from google.colab import files # Import the files object from google.colab

# Step 1: Load the dataset from the URL
url = 'https://raw.githubusercontent.com/datum-oracle/netflix-movie-titles/main/titles.csv'
df = pd.read_csv(url)

# Step 2: Save the DataFrame to a pickle file
pickle_filename = 'netflix_movies.pkl'
with open(pickle_filename, 'wb') as file:
    pickle.dump(df, file)

print(f'Dataset has been saved to {pickle_filename}')

# Step 3: Provide a download link
from IPython.display import FileLink

# Create a download link
files.download(pickle_filename)
```

```
Dataset has been saved to netflix_movies.pkl
```

Fig 1.2 Output of urldataset_to_pickle conversion

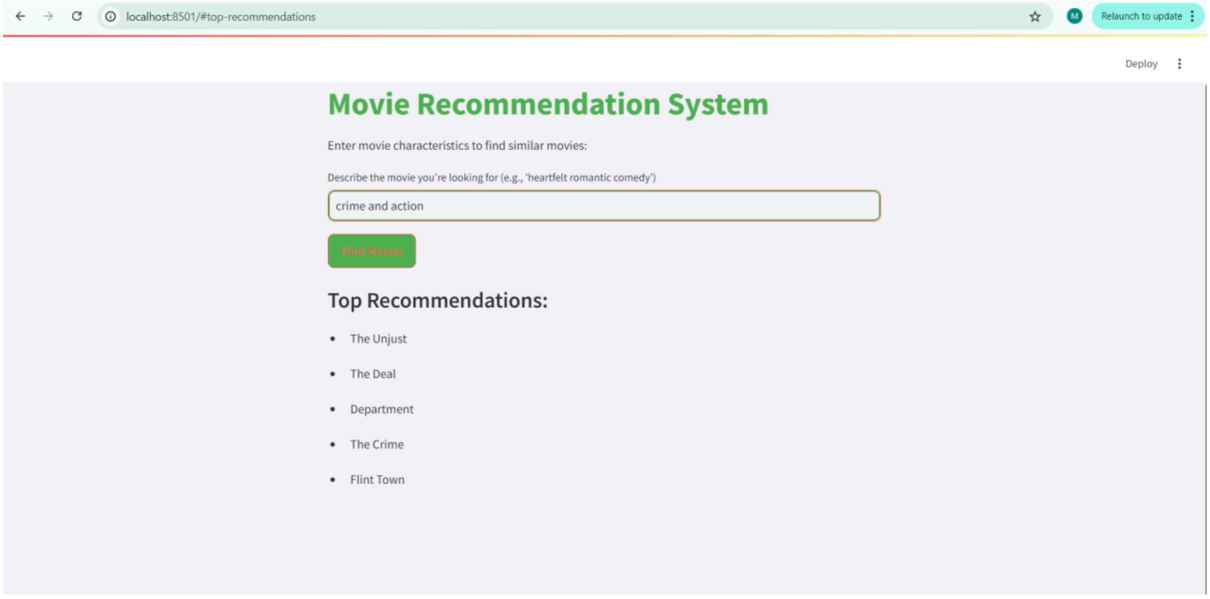


Movie Recommendation System

Enter movie characteristics to find similar movies:

Describe the movie you're looking for (e.g., 'heartfelt romantic comedy')

Fig 1.3 Streamlit app opening on running app.py UI code



Movie Recommendation System

Enter movie characteristics to find similar movies:

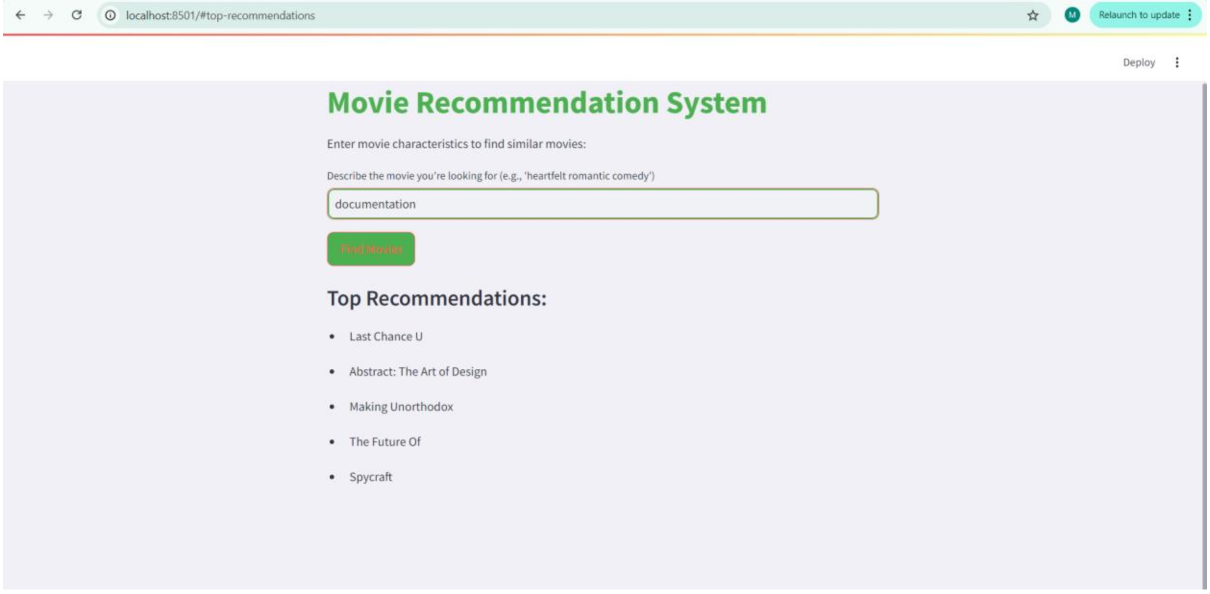
Describe the movie you're looking for (e.g., 'heartfelt romantic comedy')

crime and action

Top Recommendations:

- The Unjust
- The Deal
- Department
- The Crime
- Flint Town

Fig 1.4 Giving user input and getting output of top 5 similar recommended movies



Movie Recommendation System

Enter movie characteristics to find similar movies:

Describe the movie you're looking for (e.g., 'heartfelt romantic comedy')

documentation

Top Recommendations:

- Last Chance U
- Abstract: The Art of Design
- Making Unorthodox
- The Future Of
- Spycraft

Fig 1.5 Giving user input and getting output of top 5 similar recommended movies