PYTHON PROJECT LINK

https://github.com/Phantom-Creator12/Python-Project-Submission

1. The Movie Recommender is using IMDB to fetch data using beautifulsoup

2. Conceptually evrything is working but the program is unable to scrap data and only blank csv file is generating, other than that program is working perfectly fine. The URL is correct and has been cross-verified. Thereis some issue with IMDB data where the embedded page elements and classes are linking with data in a more complex manner.

README

Movie Scraper and Recommendation System

This project consists of two main scripts: *movie_genre_scraper.py* and *Recommender.py*

These scripts work together to scrape movie data from IMDb and provide random movie recommendations based on the data.

Prerequisites

Before running the scripts, ensure you have the following Python packages installed:

- requests
- beautifulsoup4
- pandas

Can be installed using pip:

pip install requests beautifulsoup4 pandas

Scripts Overview

1. movie_genre_scraper.py

This script scrapes movie data from IMDb based on user inputs for genre, start year, minimum IMDb rating, and minimum metascore. The data is saved to a CSV file.

2. Recommender.py

This script imports the Movie_Scraper function from scrape_movies.py, uses the generated CSV file, and recommends 10 random movies from that file.

Usage

Scraping Movie Data

1. Run the scrape_movies.py script:

    python movie_genre_scraper.py

2. Follow the prompts to enter:

    - Movie genre (e.g., action, comedy, drama)
    - Start year (e.g., 2000)
    - Minimum IMDb rating (e.g., 7.0)
    - Minimum Metascore (e.g., 50)

3. The script will fetch the top 250 movies (or fewer if criteria are not met) that match the specified criteria and save the data to a CSV file named after the genre.

Recommending Random Movies

1. Run the Recommender.py script

2. The script will automatically call the Movie_Scraper function to generate the CSV file and then recommend 10 random movies from the data.

Example

Here's an example of how to use the scripts:

1. Run the Recommender.py script
2. Enter the following inputs when prompted:

    - Genre: action

    - Start Year: 2000

    - Minimum IMDb Rating: 7.0

    - Minimum Metascore: 50

3. The script will save the data to action_top_250_movies.csv
4. The script will read the action_top_250_movies.csv file and print the details of 10 random movies from the list.

Error Handling

Scrape Movies Script

- If an invalid genre is entered (non-alphabetic characters), the script will prompt you to enter a valid genre.

- If an invalid year is entered (non-4-digit year), the script will prompt you to enter a valid 4-digit year.

- If an invalid rating or metascore is entered (non-numeric values), the script will prompt you to enter valid numeric values.

Recommend Movies Script

- If the CSV file is empty or improperly formatted, the script will print an error message and guide you to check the file.