

Project Report

Project Name: Crawler and AI

Project Description and Objectives:

This project aims to create a Python-based application for scraping the Top 50 movies from IMDB and integrating a ChatGPT model to interact with the scraped data. The objective is to enable users to ask questions about the movies through a GUI, with responses generated by the ChatGPT model.

Tech. Stack :

- **Frontend:** Tkinter for Python was used to create a user-friendly GUI.
- **Backend:** Python, with libraries such as Requests and LXML for web scraping.
- **ChatGPT Integration:** Python with Requests library to communicate with the OpenAI ChatGPT API.
- **Testing:** Python's unittest framework for testing the application's functionalities.
- The tech stack was chosen for its simplicity and effectiveness in web scraping, GUI development, and API integration.

List of the tool:

Python, Requests, LXML, Tkinter, Git, VS code, Unittest,
chatgpt model: gpt-3.5-turbo-1106

How You Built the Application:

- **Scraping:** The application scrapes movie data from IMDB using Python's Requests and LXML.
- **GUI:** A Tkinter-based interface allows users to start the scraping process and interact with the ChatGPT model.
- **ChatGPT Integration:** The ChatGPT model, accessed via OpenAI's API, generates responses to user queries based on the scraped movie data.
- **Testing:** Unit tests were written to ensure the reliability of the key functions.

How to Run the Application:

1. Install Python and the necessary libraries (Tkinter, Requests, LXML).
2. Run the **UI.py** script to open the GUI.
3. Use the GUI buttons to scrape data and interact with the ChatGPT model.

4.key:

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

PS: use in the chatgptmodel.py

5.The link of how to use the application

<https://youtu.be/epAuWdNo76o>

How to Test the Application:

The **test.py** script contains unit tests for various components of the application, such as the ChatGPT model integration and text processing functions. Run this script using a Python interpreter to execute the tests.

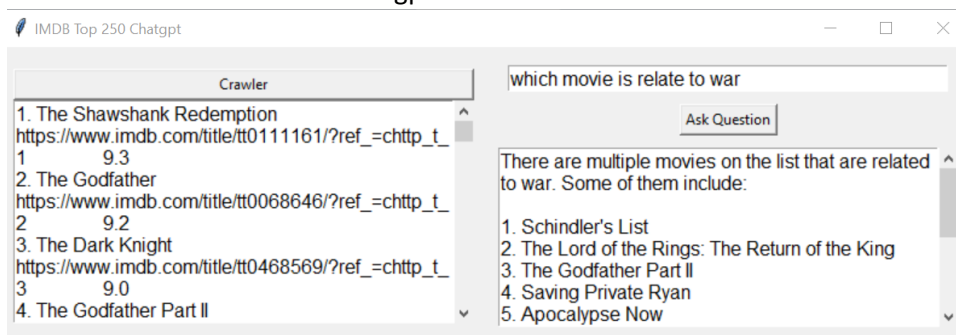
Results and Screenshots:

The application successfully scrapes the top 50 movies from IMDB and allows users to query the ChatGPT model. Screenshots of the GUI in action would be ideal here.

1.The information from the website



2.The information from the Chatgpt model



Code Repository Link:

<https://github.com/Steven-Liao24/IMDBtop250>